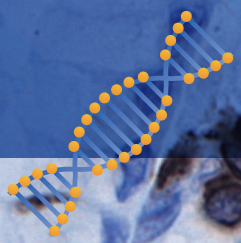
STARTER | Antibodies for IVD & CDx

IHC Antibodies

Recombinant Rabbit Monoclonal Antibodies

Starter Biotechnology Co., Ltd.



-FOLLOW US-

S-RMab® Tumor Marker Immunohistochemistry Antibody

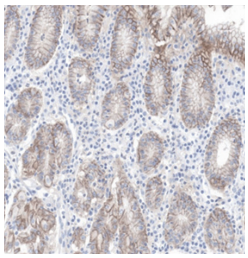
Summary

Tumor markers serve as important indicators in the early screening and diagnosis of clinical tumors, constituting an indispensable component of cancer research. The visualization of Immunohistochemistry (IHC) results, when combined with relevant imaging data, significantly enhance the ability to determine the stage and nature of the tumor and help doctors to make precise diagnoses and implement effective treatments.

Starter Biotechnology (www.starter-bio.com) is a high-tech biological company that integrating R&D, production, sales and technical services. We are committed to providing high-quality antibody products and antibody custom services for global in vitro diagnostic and biopharmaceutical companies.

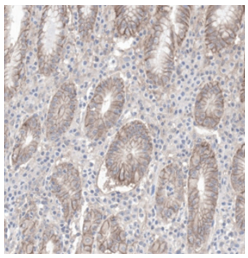
S-RMab® Antibody, High sensitivity, High specificity, Stable batch to batch Consistency

Excellent specificity and sensitivity



Human stomach tissue
Starter #S0B2070

SDT Antibody

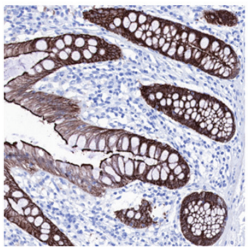


Human stomach tissue

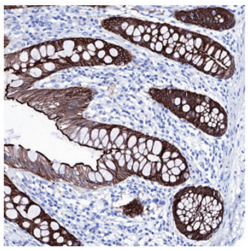
Other Company

Compared with other antibodies, the IHC results of S-RMab® Claudin 18.2 show that S-RMab® antibody is more sensitive and has better specificity in human stomach tissue samples.

Stable batch to batch consistency



Catalog Number: S0B2017
Product: Villin
Tissue: Human colon
Dilution: 1:2000
Lot No: RMA1026012
Production Date:2022.10.26



Catalog Number: S0B2017
Product: Villin
Tissue: Human colon
Dilution: 1:2000
Lot No: RMB0320002
Production Date:2023.3.20

Different batches of Villin antibody tested on human colon patient samples show that lot number RMA1026012 exhibits stable lot-to-lot consistency with lot number RMB0320002.

Immunohistochemical tumor markers by tissue type

Lung

Targets
c-Met
PD1
PD-L1
SOX2
DLL3

Prostate

Targets
p53
PSA
PSMA
PTEN
CK-HMW

Intestine

Targets
CDX2
p53
PD1
PD-L1
Villin
MSH6

Stomach

Targets
Claudin 18.2
ErbB2
Gastrin

Pancreas

Targets
ErbB2
Mesothelin
p53

Skin and soft tissue

Targets
CD31
PD1
PD-L1

Mammary gland

Targets
α-SMA
E-Cadherin
Caveolin-1
ErbB2
p53
PD1
LIV-1/SLC39A6
Mammaglobin A

Brain

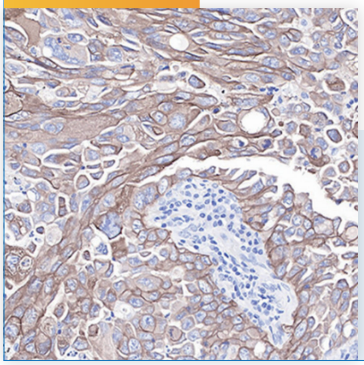
Targets
p53
PD-L1
PTEN
NSE

Ovary

Targets
p53
PAX8
PD-L1
PTEN

Common Lung Cancer IHC Biomarkers

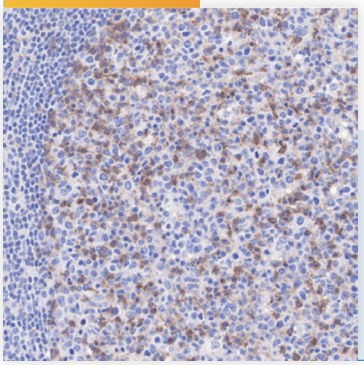
c-Met



c-Met, also referred to as tyrosine protein kinase Met or hepatocyte growth factor receptor (HGFR). MET is dysregulated in many types of human malignancies, including kidney, liver, stomach, breast, and brain cancers.

Product: c-Met Recombinant Rabbit mAb
Tissue: Human lung cancer
Localization: Cytoplasm, cell membrane
Antigen repair solution: Tris/EDTA (pH 9.0)
Repair method: High temperature and high pressure

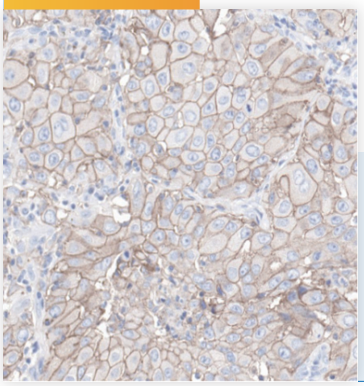
PD1



Programmed cell death protein 1, commonly referred to as PD-1 and CD279 (Cluster of Differentiation 279), is a surface protein found on T and B cells.

Product: PD1 Recombinant Rabbit mAb
Tissue: Human tonsil
Localization: Cell membrane
Antigen repair solution: Tris/EDTA (pH 9.0)
Repair method: High temperature and high pressure

PD-L1



Programmed death ligand 1 (PD-L1), also called cluster of differentiation 274 (CD274) or B7 homolog 1 (B7-H1), represents a protein encoded by the CD274 gene in human. The up-regulation of PD-L1 on immune cells (especially myeloid cells) can also lead to the formation of an immune-suppressive environment in a highly localized manner, which also fosters cancer cells to proliferate.

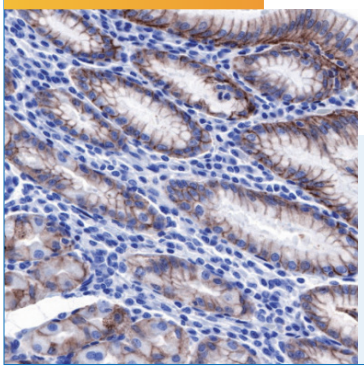
Product: PD-L1 Recombinant Rabbit mAb
Tissue: Human lung squamous cell carcinoma
Localization: Cell membrane
Antigen repair solution: Tris/EDTA (pH 9.0)
Repair method: High temperature and high pressure

S-RMab® Related Products

Targets	Catalog Number	Antibodies	Application	Product Type
c-Met	S0B2052	c-Met Recombinant Rabbit mAb (SDT-009-7H0L0)	IHC-P、WB	Rabbit mAb
PD1	S0B2037	PD1 Recombinant Rabbit mAb (SDT-035-25)	IHC-P	Rabbit mAb
PD-L1	S0B2067	PD-L1 Recombinant Rabbit mAb (SDT-119-38)	IHC-P	Rabbit mAb
	S0B2068	PD-L1 Recombinant Rabbit mAb (SDT-119-16)	IHC-P、WB	Rabbit mAb
	S0B2134	PD-L1 Recombinant Rabbit mAb (SDT-R017)	IHC-P、WB	Rabbit mAb
SOX2	S0B2051	SOX2 Recombinant Rabbit mAb(SDT-066-58)	IHC-P、WB、IP	Rabbit mAb

Common Gastric Cancer IHC Biomarkers

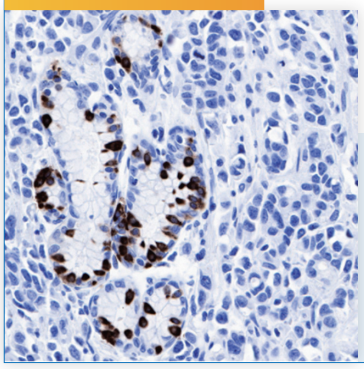
Claudin 18.2



Claudin 18.2, located in the extracellular membrane, is involved in tumor development and progression. It has exposed extracellular loops for monoclonal antibody binding.

Product: Claudin18.2 Recombinant Rabbit mAb
Tissue: Human gastric cancer
Localization: Cell membrane
Antigen repair solution: Tris/EDTA (pH 9.0)
Repair method: High temperature and high pressure

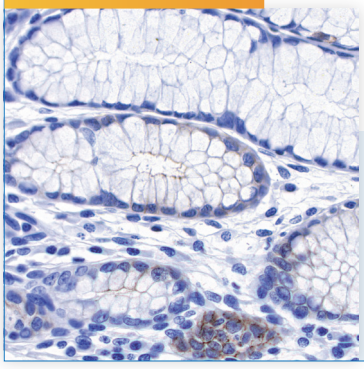
Gastrin



Gastrin finds application in the precise labeling of gastrin-secreting cells, facilitating research endeavors to G-cell proliferation and gastrinomas.

Product: Gastrin Recombinant Rabbit mAb
Tissue: Human gastric cancer
Localization: Cytoplasm
Antigen repair solution: Tris/EDTA (pH 9.0)
Repair method: High temperature and high pressure

Villin



VIL1 is a gastrointestinal-related cytoskeletal protein that is associated with the microfilament bundles of brush border microvilli. The overexpression of Villin has been reported in many diseases, such as gastrointestinal neuroendocrine tumors, colon cancer and lung cancers.

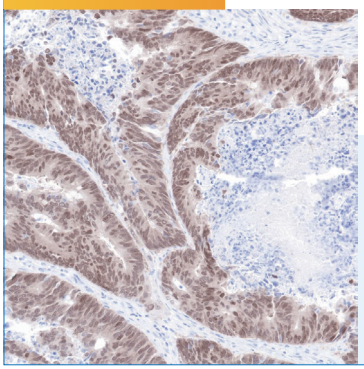
Product: Villin Recombinant Rabbit mAb
Tissue: Human gastric cancer
Localization: Cell membrane, Cytoplasm
Antigen repair solution: Tris/EDTA (pH 9.0)
Repair method: High temperature and high pressure

S-RMab® Related Products

Targets	Catalog Number	Antibodies	Application	Product Type
Claudin 18.2	S0B2069	Claudin18.2 Recombinant Rabbit mAb (SDT-102-24)	IHC-P	Rabbit mAb
	S0B2070	Claudin18.2 Recombinant Rabbit mAb (SDT-102-83)	IHC-P	Rabbit mAb
ErbB2	S0B2078	ErbB2 Recombinant Rabbit mAb (SDT-069-10)	IHC-P, WB	Rabbit mAb
	S0B2074	ErbB2 Recombinant Rabbit mAb (SDT-069-57)	IHC-P, WB	Rabbit mAb
Gastrin	S0B2094	Gastrin Recombinant Rabbit mAb (SDT-R068)	IHC-P	Rabbit mAb
Villin	S0B2017	Villin Recombinant Rabbit mAb (SDT-039-78)	IHC-P、ICC、WB、FC(Intra)	Rabbit mAb

Common Colorectal Cancer IHC Biomarkers

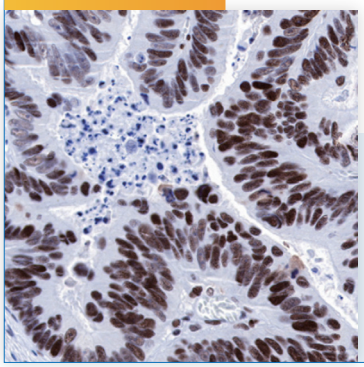
CDX2



The homeobox protein CDX-2, encoded by the CDX2 gene in human, plays an important role in the development and function of the digestive system.

Product: CDX2 Recombinant Rabbit mAb
Tissue: Human colon cancer
Localization: Nucleus
Antigen repair solution: Tris/EDTA (pH 9.0)
Repair method: High temperature and high pressure

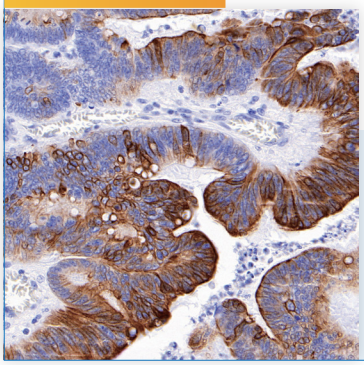
MSH6



The DNA mismatch repair protein MSH6, one of the mismatch repair proteins, is encoded by the MSH6 gene. Germline mutations within MSH6 result in a high susceptibility to gliomas.

Product: MSH6 Recombinant Rabbit mAb
Tissue: Human colon cancer
Localization: Nucleus
Antigen repair solution: Tris/EDTA (pH 9.0)
Repair method: High temperature and high pressure

Keratin 20



Keratin 20 (CK20) is a protein encoded by the KRT20 gene in humans. CK20 is frequently identified in colorectal cancer, transitional cell carcinomas, and Merkel cell carcinoma. Its application often involves combination with CK7 to differentiate various types of glandular tumors.

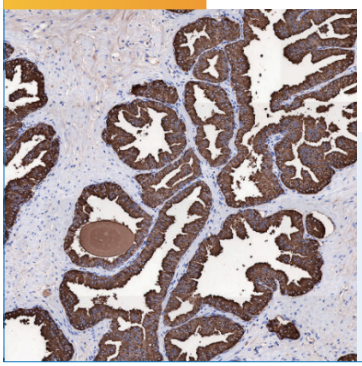
Product: Keratin 20 Recombinant Rabbit mAb
Tissue: Human colon cancer
Localization: Membrane
Antigen repair solution:Tris/EDTA (pH 9.0)
Repair method: High temperature and high pressure

S-RMab® Related Products

Targets	Catalog Number	Antibodies	Application	Product Type
CDX2	S0B2079	CDX2 Recombinant Rabbit mAb (SDT-134-76)	IHC-P, WB	Rabbit mAb
P53	S0B2146	p53 Recombinant Rabbit mAb (SDT-R118)	IHC-P, WB	Rabbit mAb
Villin	S0B2017	Villin Recombinant Rabbit mAb (SDT-039-78)	IHC-P, ICC, WB, FC (Intra)	Rabbit mAb
MSH6	S0B2110	MSH6 Recombinant Rabbit mAb (SDT-R094)	IHC-P, WB	Rabbit mAb
Keratin 20	S0B2066	Keratin 20 Recombinant Rabbit mAb (SDT-013-18)	IHC-P、ICC、WB	Rabbit mAb

Common Prostatic Cancer IHC Biomarkers

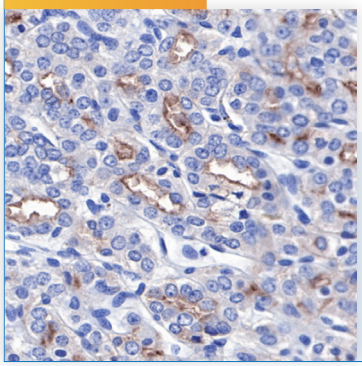
PSA



Prostate-specific antigen (PSA) plays a crucial role in the pathogenesis of prostate cancer, influencing its evolution from localized to metastatic stages.

Product: PSA Recombinant Rabbit mAb
Tissue: Human prostate
Localization: Secreted
Antigen repair solution: Tris/EDTA (pH 9.0)
Repair method: High temperature and high pressure

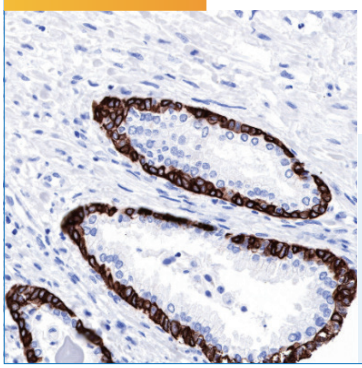
PSMA



Prostate-Specific Membrane Antigen (PSMA) also named Glutamate Carboxypeptidase II (GCPII), N-acetylated-alpha-linked Acid Dipeptidyl Peptidase, and Folate Hydrolase (FOLH1).

Product: PSMA Recombinant Rabbit mAb
Tissue: Human prostatic cancer
Localization: Cell membrane, cytoplasm
Antigen repair solution: Tris/EDTA (pH 9.0)
Repair method: High temperature and high pressure

CK-HMW



CK-HMW is a high molecular weight cytokeratin protein. Combined use with p63 and AMACR plays a crucial role in the differential diagnosis of benign and malignant prostate lesions.

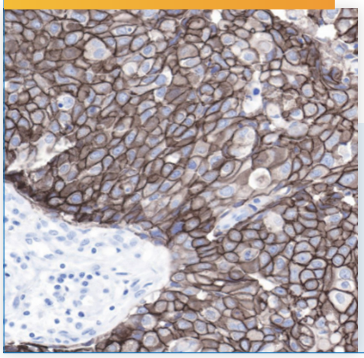
Product: CK-HMW Recombinant Rabbit mAb
Tissue: Human lung squamous cell carcinoma
Localization: Cytoplasm
Antigen repair solution: Tris/EDTA (pH 9.0)
Repair method: High temperature and high pressure

S-RMab® Related Products

Targets	Catalog Number	Antibodies	Application	Product Type
p53	S0B2146	p53 Recombinant Rabbit mAb (SDT-R118)	IHC-P、WB	Rabbit mAb
PSA	S0B2133	PSA Recombinant Rabbit mAb (SDT-195-14)	IHC-P、WB	Rabbit mAb
PSMA	S0B2107	PSMA Recombinant Rabbit mAb (SDT-R075)	IHC-P、WB	Rabbit mAb
PTEN	S0B2106	PTEN Recombinant Rabbit mAb (SDT-R069)	IHC-P、ICC、WB、FC(Intra)	Rabbit mAb
	S0B2105	PTEN Recombinant Rabbit mAb (SDT-R074)	IHC-P、ICC、WB、FC(Intra)	Rabbit mAb
CK-HMW	S0B2119	CK-HMW Recombinant Rabbit mAb (SDT-P002)	IHC-P、WB	Rabbit mAb

Common Breast Cancer IHC Biomarkers

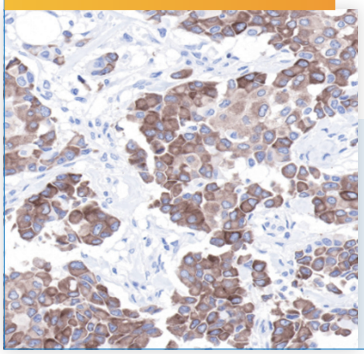
ErbB2



HER2 (ErbB2) is a member of the Human Epidermal Growth Factor Receptor (HER/EGFR/ERBB) family. HER2 has emerged as an important biomarker and therapeutic target for approximately 30% of breast cancer patients.

Product: ErbB2 Recombinant Rabbit mAb
Tissue: Human breast cancer
Localization: Cell membrane
Antigen repair solution: Tris/EDTA (pH 9.0)
Repair method: High temperature and high pressure

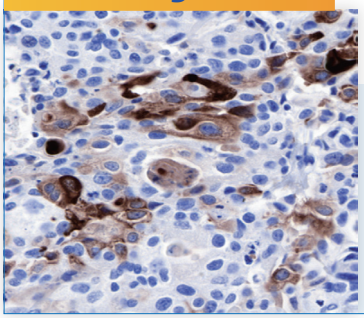
LIV-1/SLC39A6



The zinc transporter LIV-1 (SLC39A6) is under the regulatory control of estrogen. The overexpression of SLC39A6 has been associated with breast, prostate, pancreatic, cervical, and hepatocellular cancer.

Product: LIV-1/SLC39A6 Recombinant Rabbit mAb
Tissue: Human breast cancer
Localization: Cell membrane, cytoplasm
Antigen repair solution: Tris/EDTA (pH 9.0)
Repair method: High temperature and high pressure

Mammaglobin A



Mammaglobin-A is a novel breast cancer associated antigen. Mammaglobin-A experiences substantial overexpression in up to 80% of primary and metastatic breast cancers.

Product: Mammaglobin A Recombinant Rabbit mAb
Tissue: Human breast cancer
Localization: Cytoplasm
Antigen repair solution: Tris/EDTA (pH 9.0)
Repair method: High temperature and high pressure

S-RMab® Related Products

Targets	Catalog Number	Antibodies	Application	Product Type
SMA	S0B2103	alpha smooth muscle Actin (SMA) Recombinant Rabbit mAb (SDT-132-63)	IHC-P	Rabbit mAb
E-Cadherin	S0B2112	E-Cadherin Recombinant Rabbit mAb (SDT-R088)	IHC-P、ICC、WB	Rabbit mAb
Caveolin-1	S0B2109	Caveolin-1 Recombinant Rabbit mAb (SDT-065-20)	IHC-P、WB	Rabbit mAb
ErbB2	S0B2078	ErbB2 Recombinant Rabbit mAb (SDT-069-10)	IHC-P、WB	Rabbit mAb
	S0B2074	ErbB2 Recombinant Rabbit mAb (SDT-069-57)	IHC-P、WB	Rabbit mAb
p53	S0B2146	p53 Recombinant Rabbit mAb (SDT-R118)	IHC-P、WB	Rabbit mAb
PD1	S0B2037	PD1 Recombinant Rabbit mAb (SDT-035-25)	IHC-P	Rabbit mAb
LIV-1/SLC39A6	S0B0020	LIV-1/SLC39A6 Recombinant Rabbit mAb (SDT-206-RS224)	IHC-P、ICC、WB	Rabbit mAb
	S0B0023	LIV-1/SLC39A6 Recombinant Rabbit mAb (SDT-206-84)	IHC-P、ICC、WB	Rabbit mAb
Mammaglobin A	S0B2096	Mammaglobin A Recombinant Rabbit mAb (SDT-R065)	IHC-P	Rabbit mAb

S-RMab® In Vitro Diagnostic Recombinant Antibodies

Tumor Markers

Targets
CEA
PSA
GP73

Cardiovascular

Targets
BNP
MPO
ST2
IGFBP4
Galectin-3

Thrombus

Targets
TM
T-PA
PAl-1
Thrombin
Antithrombin lll
D-dimer

Infectious Diseases

Targets
SARS-coV-2 Nucleocapsid Protein
A29L(MPXV)
L1R(MPXV)
A35R(MPXV)
M1R(MPXV)

Fertility

Targets
sFlt-1
IGFBP1

Inflammation

Targets
PCT
VEGF-C

Neurology

Targets
Tau
P-Tau181

Bone Metabolism

Targets
OST/OST(Gla)
PINP
PTH

Myofibrosis

Targets
Laminin
Collagen IV
PIIINP

Hormones

Target
IGFBP-3

Veterinary

Target
P54（ASFV）

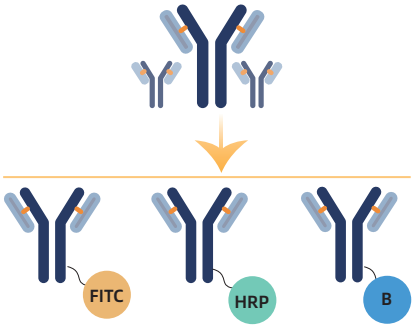
Others

Targets
Haptoglobin
Thrombopoietin(TPO)

! For more IVD Paired Antibodies, welcome to contact us (order@starter-bio.com) and request the IVD Brochure.

S-RMab® Antibody Service

1 Antibodies Labeling Service

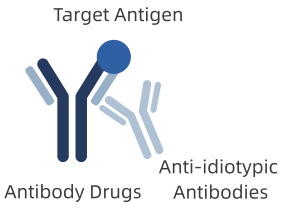


Type	Label name	Time
Enzyme Marker	Horseradish Peroxidase (HRP)	2-3 weeks
Biotin Marker	Biotin	1-2 weeks
Fluorescent labeling	Fluorescein isothiocyanate (FITC)	1-2 weeks
	Cy5	1-2 weeks
Alexa Fluor	Alexa Fluor488, 647, 555, 594	1-2 weeks

2 Anti-idiotypic Antibody Customization

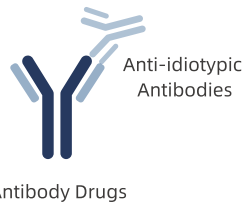
- Different types of anti-idiotypic antibodies

Detection - Total Drugs



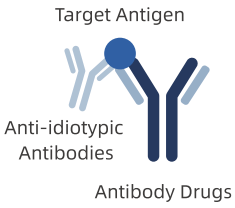
Antigen Non-neutralizing (non-blocking)

Detection - Unbound Drugs



Antigen Non-neutralizing (blocking)

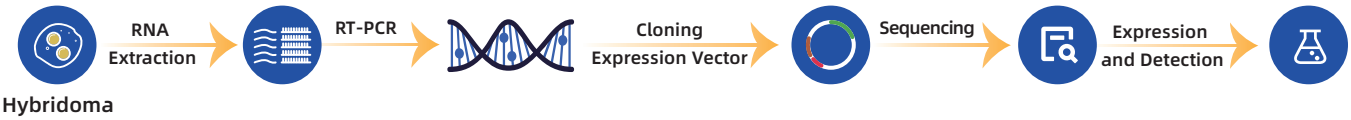
Detection - Conjugated Drugs



Drug Target Complex Type (non-blocking)

Project	Anti-ID Monoclonal Antibody	Anti-ID Polyclonal Antibody
Application	PK Detection	Immunogenicity Evaluation
Cycle	23-30 weeks	8-12 weeks
Advantages	Single Epitope High Specificity High Stability Stable batch to batch Consistency	Low cost Simulate the real situation in the blood samples

3 Mouse Hybridoma Antibody Gene Recombinant Expression Service



Platform Advantages

(1) Meet Customer Needs and Provide Diversified Services

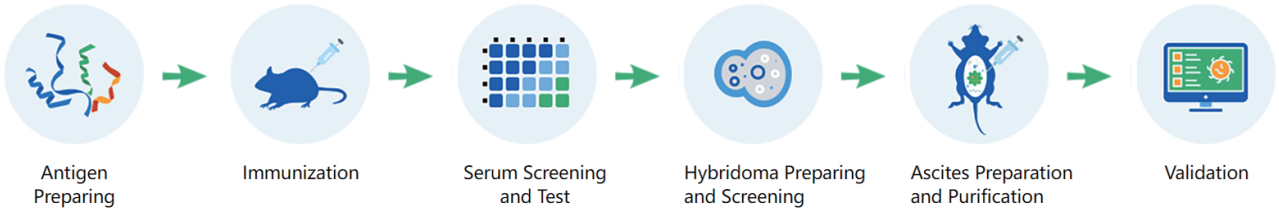
(2) Known Recombinant Antibody Sequences, Long-Term Preservation, Stable Performance, and Good Reproducibility

- Note: Hybridized tumor cell lines may carry risks such as loss of antibody chromosomes, cessation of cell growth, or cell death after resuscitation.

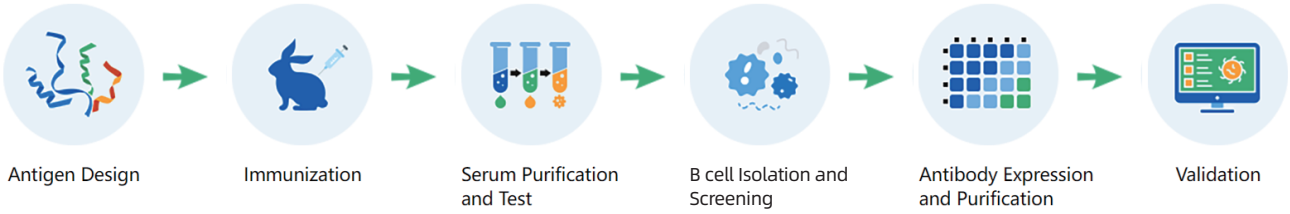
(3) Convenience for Genetic Engineering Modification

4 Guaranteed Antibody Customization

Based on Starter exclusive S-RMab® murine and rabbit monoclonal antibody development platform, and a complete antibody application verification and detection system (ELISA, WB, IHC, ICC, FC, IP, etc.). We aim to provide customers with personalized antibody customization services



Custom Murine mAbs ↑



Custom Rabbit mAbs ↑

- Broader antibody expression profile
- Stable batch to batch consistency
- High sensitivity and specificity

About Starter Biotechnology

Starter Biotechnology (www.starter-bio.com) is a high-tech biological company that integrating R&D, production, sales and technical services. We are committed to providing high-quality antibody products and antibody custom services for global in vitro diagnostic and biopharmaceutical companies.

Currently, we have more than thousands of recombinant antibody and antigen products, covering tumor, neurological disease, infectious disease and other markers. Based on the two major antibody development platforms: recombinant rabbit mAb, rapid mouse mAb, and a variety of antibody application validation systems including Immunohistochemistry (IHC), Enzyme-linked Immunosorbent Assay (ELISA), Western Blot (WB), Immunocytochemistry/Immunofluorescence (ICC/IF) , Flow cytometry (FC), and Immunoprecipitation (IP), etc., we can guarantee the quality of diagnostic raw materials in an all-round way.

Starter Bio, Antibodies for CDx&IVD, Your Best Antibody Partner

Certification ISO9001
Quality Assurance

Self R&D
All In Stocks and Fast Feedback

Multiple Quality Control
Trustworthy Results

Top Ten Application Validation Platforms

- Sandwich-ELISA
- Immunohistochemistry (IHC)
- Immunocytochemistry /immunofluorescence (ICC/IF)
- Flow Cytometry (FC)
- Immunoprecipitation (IP)
- Western blot (WB)
- ELISA
- Chemiluminiscence (CLIA)
- Fluorescence Chromatography
- Collaurum

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