



Technology®
ABclonal

Leader in Biomolecular
Solutions for Life Science

ABclonal One-stop Solutions for Life Sciences Industry

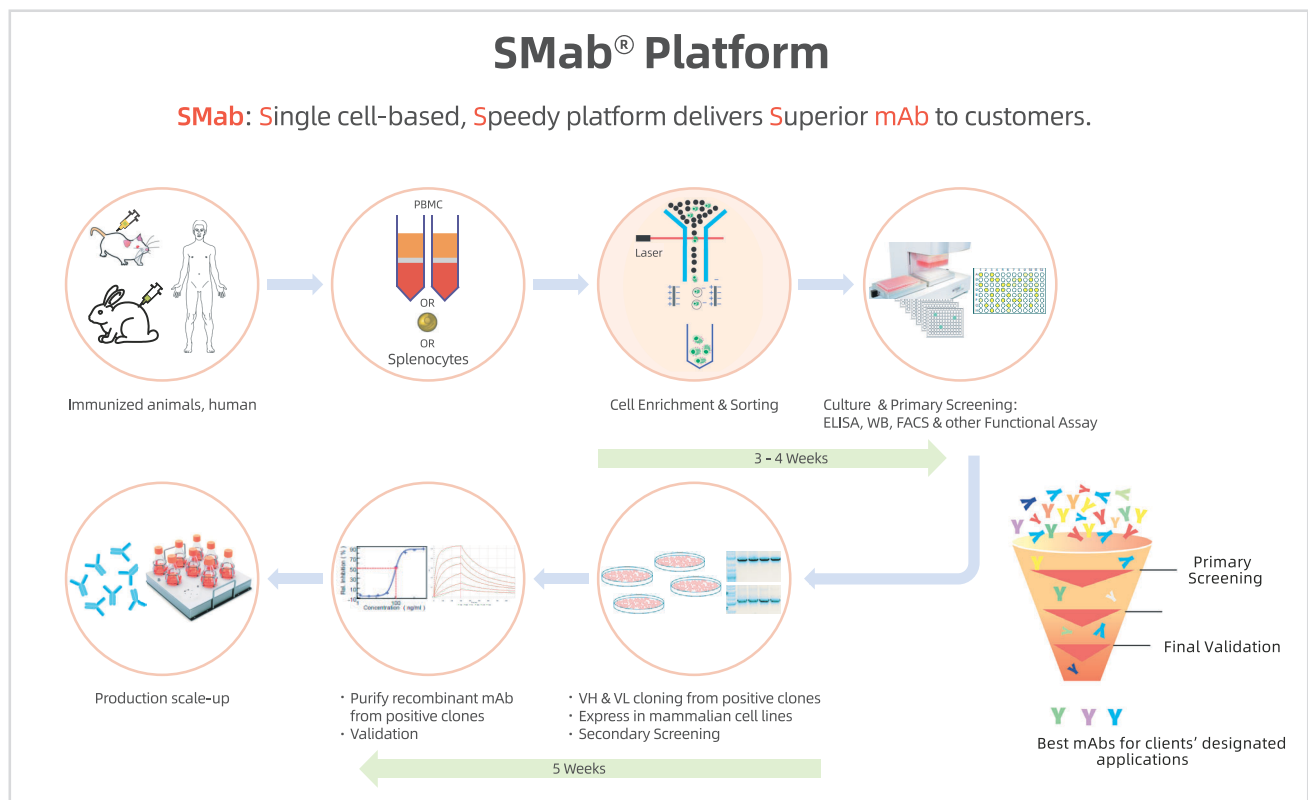
Company Profile

ABclonal is an innovative growth company aiming to provide reliable and cost-effective products and services for both basic and translational research in cutting-edge biomedical science. Innovation is in our DNA, with worldwide R&D centres focusing on technical innovation and product development for protein science and molecular biology.

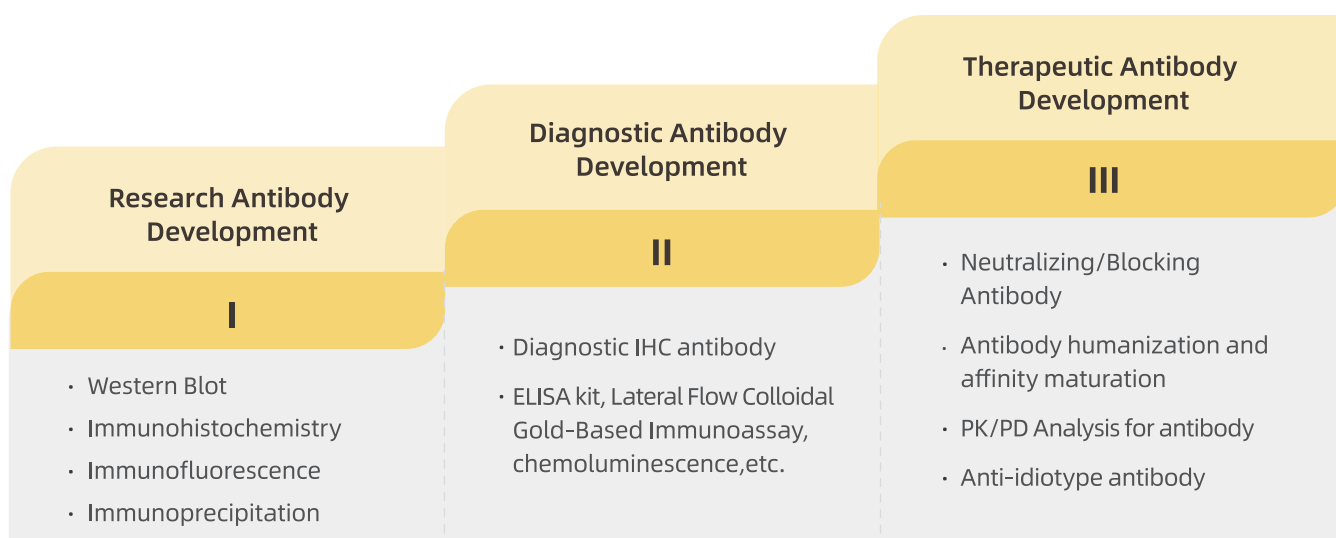
ABclonal always listen carefully to the opinions and feedback from talented scientists across the globe, and quickly translate their needs into a product development pipeline dedicated to developing valuable research tools based on state-of-the-art technologies, to meet the needs of innovation in a timely manner.

SMab® Single B Cell Platform

SMab® (Single Cell Based Monoclonal Antibody Discovery Platform) is an antibody discovery and development platform based on single B cell. This technology follows steps including single-cell sorting, culturing, and gene cloning of specific antibodies to produce high-quality and -specific recombinant antibodies. By incubating single B cell in optimized culture media for several weeks *in vitro*, the B cells can be stimulated and proliferate *in vitro*, then secrete enough IgG in the supernatant for primary screening.



New Biomarker Research & Drug Discovery

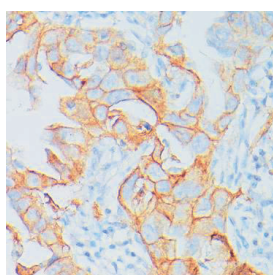


Diagnostic Immunohistochemistry/Pathology Antibody

ABclonal develops and produces a series of pathological diagnostic recombinant rabbit monoclonal antibodies with extremely strict in-house validation. The product pipeline includes common biomarkers and new potential biomarkers, covering a variety of disease areas such as oncology, cardiovascular disease, neurodegenerative diseases, and infectious diseases. ABclonal has a professional IVD product research and developing team. With rich experience in antibody and kit development, our team can apply our S_Mab[®] single B cell antibody development platform to produce high-quality and high-stability monoclonal antibodies within a relatively short period, and can offer customized services to meet different needs.

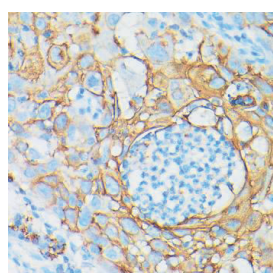
Featured Products

A20344 PD-L1/CD274 Rabbit mAb



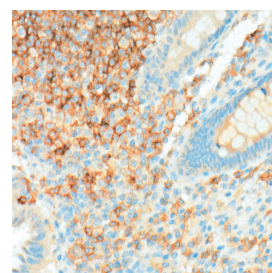
Immunohistochemistry of paraffin-embedded Human lung adenocarcinoma using PD-L1/CD274 /CD274 Rabbit mAb (A20344) at dilution of 1:200.

A19081 MUC1 Rabbit mAb



Immunohistochemistry of paraffin-embedded human lung cancer using MUC1 Rabbit mAb (A19081) at dilution of 1:100.

A19013 CD19 Rabbit mAb



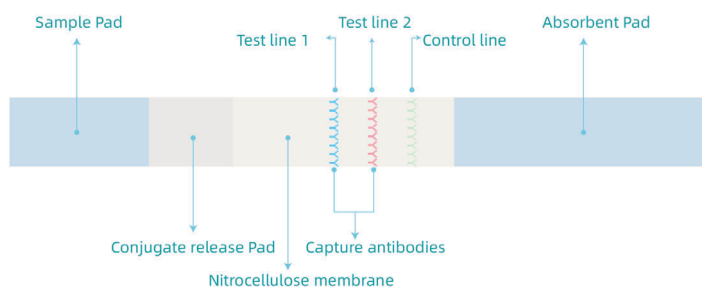
Immunohistochemistry of paraffin-embedded Human appendix using CD19 antibody (A19013) at dilution of 1:10000.

Cat.No.	Product Name	Cat.No.	Product Name
A11651	[KO Validated] CDKN2A/p16INK4a Rabbit mAb	A11651	[KO Validated] Cyclin D1 Rabbit mAb
A19038	[KO Validated] Cyclin D1 Rabbit mAb	A19038	Cytokeratin 19 (KRT19) Rabbit mAb
A19135	[KO Validated] PD-L1/CD274 Rabbit mAb	A19135	E-Cadherin mouse mAb

Cat.No.	Product Name	Cat.No.	Product Name
A19657	[KO Validated] β -Catenin Rabbit mAb	A19657	GFAP Rabbit mAb
A17910	α -Smooth Muscle Actin (ACTA2) Rabbit mAb	A17910	Glutamine Synthetase (GLUL) Rabbit mAb
A19611	Androgen Receptor Rabbit mAb	A19611	Ki67 Rabbit mAb
A4923	Arginase 1 (ARG1) Rabbit mAb	A4923	MUC1 Rabbit mAb
A20221	[KO Validated] β -Catenin Mouse mAb	A20221	MUC2 Rabbit mAb
A3734	Calponin Rabbit mAb	A3734	p63 Rabbit mAb
A19013	CD19 Rabbit mAb	A19013	PD-1/CD279 Mouse mAb
A11436	CD23 Rabbit mAb	A11436	PD-L1/CD274 Rabbit mAb
A19014	CD31/PECAM1 Rabbit mAb	A19014	PD-L1/CD274 Rabbit mAb
A20228	CD31/PECAM1 Rabbit mAb	A20228	Placental alkaline phosphatase (PLAP) Rabbit mAb
A3661	CD35/CR1 Rabbit mAb	A3661	PMS2 Rabbit mAb
A19021	CD45 Rabbit mAb	A19021	SATB2 Rabbit mAb
A9560	CD7 Rabbit mAb	A9560	TFE3 Rabbit mAb
A19024	CD79a Rabbit mAb	A19024	Thyroglobulin Rabbit mAb
A18219	CDKN2A/p16INK4a Mouse mAb	A18219	Thyroglobulin Rabbit mAb
A20222	CDX2 Rabbit mAb	A20222	von Willebrand factor (VWF) Rabbit mAb
A18131	CEACAM5 Mouse mAb	A18131	δ -Catenin/p120 Catenin Rabbit mAb

Small Nucleic Acid Labeling Molecules mAb for NALF Assay

Nucleic Acid Lateral Flow (NALF) assay is a universal tool for simple and quick detection of nucleic acid sequences. The target nucleic acid was amplified and labeled with fluorescein (FITC/FAM), Digoxigenin (DIG), or biotin by LAMP or PCR. Signal originates from a sandwich hybridization occurring at the test line where the FITC and DIG labeling amplified products can bind with the capture antibodies, and free DNA probe is commonly immobilized by a terminal control line. As in lateral flow immunoassays, signaling moieties can be oligonucleotide-decorated gold or latex particles, or simply a fluorescent dye that modifies the tag sequence.



● ABclonal Recommended Antibodies for Nucleic Acid Lateral Flow (NALF) Assay







Target	Cat.No.	Product Name
Digoxigenin, DIG	A20267	Digoxin Rabbit mAb
Fluorescein, FITC	A20797	Fluorescein FITC Rabbit mAb
Biotin	A20684	Biotin Rabbit mAb

Molecular Biology Reagents for *in vitro* Diagnostics




ABclonal provides various purified enzymes and optimized reagents for molecular diagnosis, including sample preparation reagents, polymerases, antibodies, UDG, reverse transcriptase, RNase inhibitor, proteinase K, and high purity nucleotides. Covering a multitude of molecular diagnostic applications such as qPCR, RT-qPCR, and NGS, ABclonal's products have been verified in all standard applications and have passed rigorous QC testing, ensuring stable and reliable quality.

From inception, ABclonal has focused on developing enzymes with unique properties and has thus accumulated an impressive inventory of novel molecular diagnostics enzymes to meet a wide variety of clinical and research needs. The successful development of these high-performance enzyme variants has allowed ABclonal to offer specialized kits for a variety of applications and in various formats to meet the needs of end users.




● PCR

Product category	Cat.No.	Product name	Size
Taq DNA Polymerase	RK26000 	Taq DNA Polymerase M101 (5,000 U/mL)	250 U / 1,000 U
Hot Start Taq DNA Polymerase	RK26201 	HS Taq DNA Polymerase M101 (5,000 U /mL)	250 U / 1,000 U
Taq Antibody	RK20545 	Taq Antibody (5,000 U/mL)	100 U / 500 U
UDG	RK20527 	Uracil-DNA Glycosylase (UDG)	1,000 U / 5,000 U
Heat-labile UDG	RK20543 	Heat-labile UDG (1,000 U/mL)	100 U / 500 U
Lyophilizable reagents	RK26101 	Taq DNA Polymerase C101102 (50,000 U/mL)	1,000 U / 5,000 U

● Reverse transcription

Product category	Cat.No.	Product name	Size
Reverse Transcriptase	RK21400 	ABScript II Reverse Transcriptase	4,000 U / 10,000 U / 200,000 U
	RK20408 	ABScript III Reverse Transcriptase	4,000 U / 10,000 U
RNase Inhibitor	RK21401 	RNase Inhibitor, Mammalian	2,000 U / 10,000 U

● Probe qPCR products

Product category	Cat.No.	Product name	Size
qPCR	RK21208	Entrans 2X qPCR Probe Master Mix	100 RXN / 500 RXN
	RK21209	Entrans qPCR Probe Kit	100 RXN / 500 RXN
	RK21210	Entrans qPCR Probe Set	100 RXN / 500 RXN
	RK21212 	Entrans 2X qPCR Probe Master Mix V2	50 RXN / 250 RXN
	RK21222 	Entrans 2X qPCR Probe Master Mix with UDG	50 RXN / 250 RXN
One Step RT-qPCR	RK20412 	ABScript III One Step RT-qPCR Probe Kit with UDG V5	50 RXN / 250 RXN

Raw materials for Research/Diagnostic Assay

ABclonal's SAb® single B cell based recombinant rabbit mAb development platform can provide IVD companies with high-quality immunodiagnostic ELISA kit raw materials that could be used for infectious diseases, tumor biomarkers, myocardial biomarkers, endocrine and hormones, autoimmune diseases, neurobiology, metabolic syndrome, leukemia, coagulation and anemia, enzymes, histocompatibility antigen test, common biochemical raw materials, and other clinical testing and POCT testing fields.

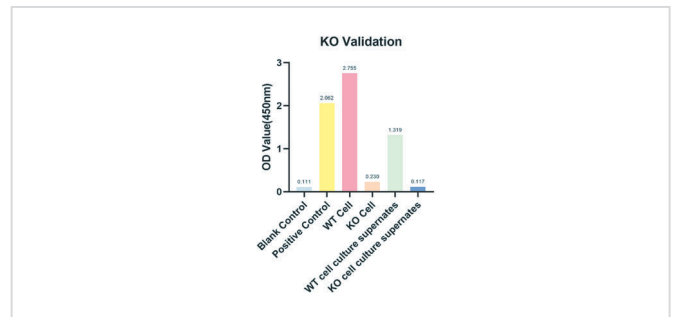
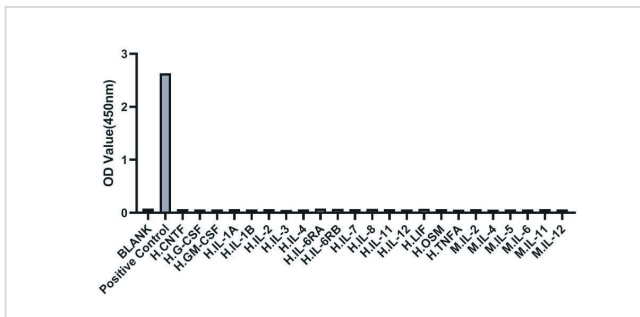
Featured Product Quality Control Interleukin 6 (IL-6)

Interleukin 6 (IL-6), promptly and transiently produced in response to infections and tissue injuries, contributes to host defense through the stimulation of acute phase responses, hematopoiesis, and immune reactions, and plays a pathological effect on chronic inflammation and autoimmunity.

Cat.No.	Product Name	Linear Range	R ²	Sensitivity
RM17601	Human IL-6 Monoclonal Antibody, Rabbit MAb (CAP)	1.56-100 pg/mL	0.9911	0.18 pg/mL
RM17602	Human IL-6 Monoclonal Antibody, Rabbit MAb (DET)			

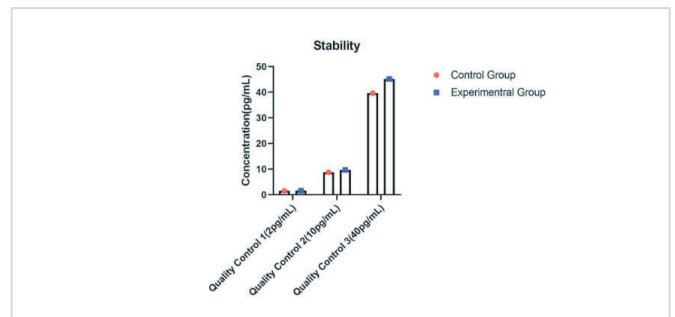
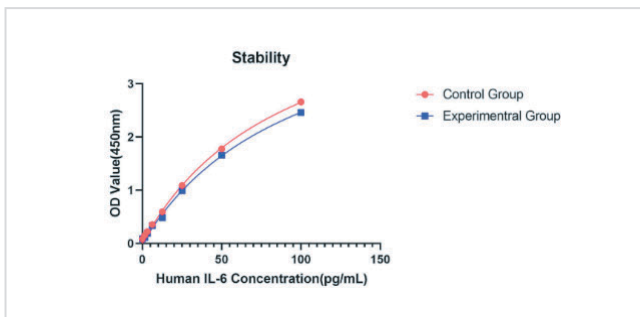
Specificity

Select proteins with similar structures, high species homology, and related receptors to Human IL-6 for specific analysis, and apply concentrations far above the detection limit for test and analysis.



Result: Comparative test the product storing at 37°C for seven days with the product at recommended storage temperature. CV is less than 10%.

Stability



Result: Comparative test the product storing at 37°C for seven days with the product at recommended storage temperature. CV is less than 10%.

■ Specificity

Intra-batch variability : Test 3 different samples of known concentration with one product, 16 times each, and calculate the CV of the concentration. CV is less than 5%.

Inter-batch variability : Test 3 different samples of known concentration with 3 different batches of products and the CV of the concentration is less than 10%.

Sample	Intra-Assay Precision			Inter-Assay Precision		
	1	2	3	1	2	3
n	16	16	16	24	24	24
Mean(pg/mL)	2.2	9.8	39.5	2.1	9.9	39.5
Standard Deviation	0.12	0.48	1.7	0.13	0.4	1.9
CV(%)	5.7	4.9	4.3	6.2	4.2	4.9

■ Rate of recovery

Add human IL-6 protein of high, medium, and low concentrations to corresponding samples (serum, plasma, cell supernatant) for detection, and calculate the recovery rate of the protein (the actual tested sample concentration/theoretical sample concentration x 100%). At least 5 different samples were selected for each group, and the average recovery rate and recovery rate range were calculated. The recovery rate is required to be 80%-120%. Through the recovery rate test, we determine whether the ELISA kit is affected by interference factors. If interference factors affect the recovery rate, we optimize the reaction system for each product to ensure our detection system can avoid the interference of matrix effects to the greatest extent, so the kit products can accurately detect the quantity of the target protein in the test sample.

Sample	Average Recovery Rate (%)	Recovery Rate Range (%)
Cell Culture Media (n=5)	92	83-103
Serum (n=5)	95	89-106

● Other Recommended Products

Cat.No.	Method	Product Name	Detection Range
RK04144	Double-antigen sandwich	SARS-CoV-2 Spike RBD Protein Antibody ELISA Kit	1.56-100ng/mL
RK04145	Double-antigen sandwich	SARS-CoV-2 Spike S1 Protein Antibody ELISA Kit	0.78-50ng/mL
RK04158	Double-antigen sandwich	SARS-CoV-2 Spike S1+S2 ECD(S-ECD) Protein Antibody ELISA Kit	3.12-200ng/mL

Cat.No.	Product Name	Application	Host Species
RM17619	Anti-SARS-CoV-2 RBD Neutralizing Antibody,Rabbit MAb	Competitive ELISA	Rabbit
RM17620	Anti-SARS-CoV-2 RBD Neutralizing Antibody,Rabbit MAb	Competitive ELISA	Rabbit
RM17585	Anti-SARS-CoV-2 RBD Neutralizing Antibody,Rabbit MAb	Competitive ELISA	Rabbit