CELNOVTE

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IN-HOUSE PRIMARY AB CLONES

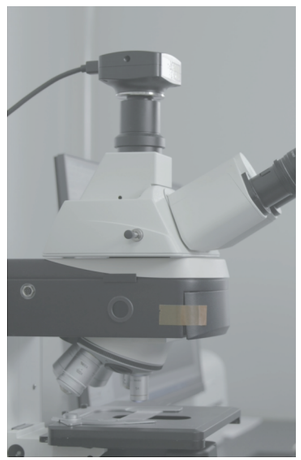
Monoclonal Antibodies

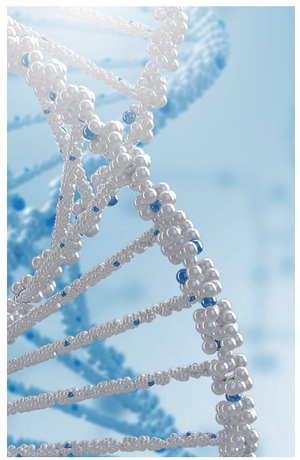
Name	Cat#	Species	Clone ID
AFP	CAM-0183	Mmab	C1B1
SMA	CAM-0191	Mmab	C1C1
AMACR,p504s	CAM-0201	Mmab	C7H4
Annexin A1	CAM-0221	Mmab	C5F8
Bcl-2	CBM-0042	Mmab	C7B8
Bcl-6 oncoprotein	CBM-0052	Mmab	C4A4
Calponin	CCM-0213	Mmab	C6A12
CR	CCM-0222	Mmab	C5G4
CAIX	CCM-0232	Mmab	C5C6
CD1a	CCM-0313	Mmab	C1E1
CD3	CCM-0332	Mmab	C3E7
CD5	CCM-0354	Mmab	C6A10
CD8	CCM-0374	Mmab	C2B11
CD10	CCM-0391	Mmab	C6D1
CD20	CCM-0461	Mmab	C4A11
CD23	CCM-0483	Mmab	C3B11
CD30	CCM-0523	Mmab	C5E10
CD38	CCM-0572	Mmab	C3G3
CD56	CCM-0662	Mmab	C5A2
CD68	CCM-0704	Mmab	C2F10
CD79a	CCM-0734	Mmab	C4C4
CD138	CCM-0782	Mmab	C5G6
CD163	CCM-0802	Mmab	C2F5
CDX2	CCM-0824	Mmab	C5G1
CD68a/CEA	CCM-0833	Mmab	C3G5
HER-2	CCM-0844	Mmab	C1F7
CgA	CCM-0852	Mmab	C1E8
CK5	CCM-0975	Mmab	C6H1
CK5/6	CCM-0983	Mmab	C6H1/C1C8
CK7	CCM-0992	Mmab	C1C10
CK8	CCM-1004	Mmab	C7E10

Name	Cat#	Species	Clone ID
CK14	CCM-1052	Mmab	C2D11
CK19	CCM-1102	Mmab	C8G9
CK20	CCM-1113	Mmab	C7C11
CK6	CCM-1252	Mmab	C1C8
CD4	CCR-0343	Rmab	C9E15
CK8	CCR-1002	Rmab	C9E18
Desmin	CDM-0023	Mmab	C3B7
DOG-1	CDM-0033	Mmab	C2E3
EGFR	CEM-0035	Mmab	C1E7
ER	CEM-0081	Mmab	C6H7
Gal-3	CGM-0102	Mmab	C6C10
GFAP	CGM-0153	Mmab	C2C6
GS	CGM-0191	Mmab	C6E12
HSA	CHM-0271	Mmab	C4F5
HCG	CHM-0281	Mmab	C5C5
Inhibin-α	CIM-0151	Mmab	C6H12
IDH1	CIM-0200	Mmab	C9E2
Kappa Light Chain	CKM-0014	Mmab	C8H10
Ki-67	CKM-0032	Mmab	C3G4
Lambda Light Chain	CLM-0012	Mmab	C8A6
Mammaglobin	CMM-0112	Mmab	C7G9
MLH1	CMM-0182	Mmab	C12A19
MSH2	CMM-0191	Mmab	C2G3
MSH6	CMM-0202	Mmab	C5D11
Muc-1 Glycoprotein	CMM-0251	Mmab	C3C1
Muc-5AC Glycoprotein	CMM-0281	Mmab	C1H10
MUM-1	CMM-0303	Mmab	C6H9
Myosin Heavy Chain MHC	CMM-0361	Mmab	C1B2
Napsin A	CNM-0012	Mmab	C2C2
NKX3.1	CNM-0061	Mmab	C3B2
nm23 protein	CNM-0072	Mmab	C12A26

Name	Cat#	Species	Clone ID
NSE	CNM-0082	Mmab	C8E5
OCT3/4	COM-0061	Mmab	C4E6
p16	CPM-0103	Mmab	C4H6
p40	CPM-0133	Mmab	C3B4
p53	CPM-0142	Mmab	C2H10
p57 Protein(Kip2)	CPM-0152	Mmab	C3G2
p63	CPM-0160	Mmab	C2C10
Pax-5	CPM-0244	Mmab	C12A5
Pax-8	CPM-0252	Mmab	C12A32
PD1	CPM-0271	Mmab	C5H11
PD-L1	CPM-0273	Mmab	C9C9
PLAP	CPM-0312	Mmab	C9D2
PR	CPM-0365	Mmab	C4D10
PSA	CPM-0404	Mmab	C2C12
PSAP	CPR-0221	Rmab	C9E30
Pax-2	CPR-0232	Rmab	C9E20
RRM1	CRR-0031	Rmab	C9E112
S100p	CSM-0123	Mmab	C5B10
SALL4	CSM-0131	Mmab	C2E8
SP-A	CSM-0201	Mmab	C3F12
STMN1	CSM-0230	Mmab	C12A34
SYN	CSM-0250	Mmab	C9D11
TdT	CTM-0132	Mmab	C2C8
Tg	CTM-0150	Mmab	C6D6
TPO	CTM-0163	Mmab	C3B12
TSH	CTM-0213	Mmab	C12A17
TOPIIα	CTM-0233	Mmab	C4E3
TTF-1	CTM-0263	Mmab	C7H7
TOPIIα	CTR-0231	Rmab	C9E31
Villin	CVM-0031	Mmab	C2E10
Vimentin	CVM-0044	Mmab	C2B4

R&D PLATFORM





The Celnovte Antibody R&D Center is a research institution within the Celnovte group. The center currently has the following research platforms: (1) mouse monoclonal antibody development (2) rabbit monoclonal antibody development based on single B-Cell cloning (3) Recombinant antibody expression. This enables one-stop in-house solution to IVD-grade primary antibody development for IHC application.

The platform for mouse monoclonal antibody development at Celnovte is based on hybridoma technology. Our proprietary antibody screening technology enables the development of high-specificity, high-affinity mAbs suitable for IVD applications towards a wide range of targets.
Currently, there are 77 mAb clones in our portfolio, which includes the following companion diagnostic markers: ER, PR, Her2 and PD-L1, among which the anti-ER has been registered as the NMPA Class III medical device.

Celnovte's recombinant antibody expression technology is based on proprietary high-yield recombinant plasmids and mammalian cell lines, as well as a high-throughput IgG gene amplification system, which enables highly-efficient production of mouse and rabbit mAbs with minimal batch-to-batch variations.

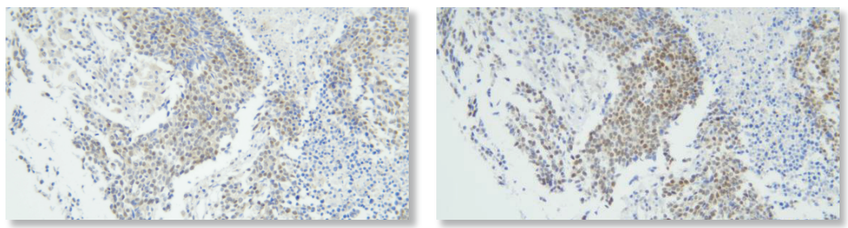
COOPERATION

Currently, mAbs have been widely applied in in-vitro diagnosis and drug development. Creation of highly sensitive and specific mAbs has become crucial for many research scenarios. Celnovte has a professional antibody development team that supports customized mAb development services based on our mouse mAb and rabbit mAb platforms. A cooperation with us promises a fast project processing according to the highest quality standards.

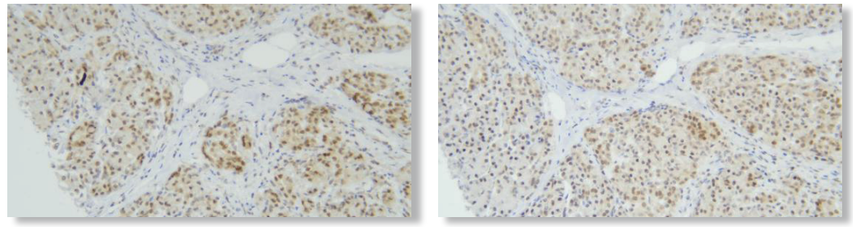
CASE OF COLLABORATION

Mouse anti-PNCP Monoclonal Antibody : Co-developed with Professor Xinying JI in the International Joint Laboratory of Nuclear Protein Gene Regulation in Henan Province at Henan University.

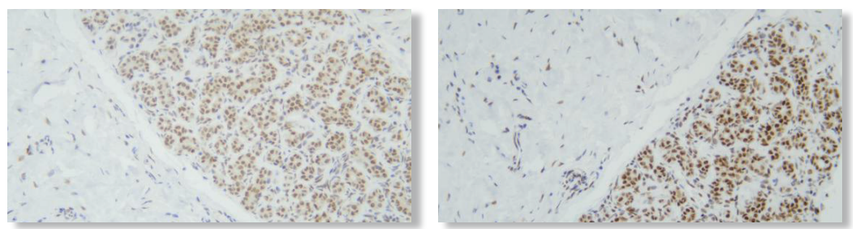
PEST-containing nuclear protein (PCNP) is a novel nuclear protein containing a PEST sequence. It mainly exists in the nucleus and is a ubiquitin-conjugating enzyme with the ability to ubiquitinate target proteins. Studies have found that PCNP is not only related to cell cycle regulation but also may be involved in the regulation of cell proliferation, apoptosis, differentiation, metastasis, gene expression, transcription regulation, and signal transduction. PCNP is a tumor suppressor and a new target for cancer diagnosis and treatment.



lung adenocarcinoma, left: control Ab, right: in-house clone C7F1



normal pancreas, left: control Ab, right: in-house clone C7F1



normal breast lobules, left: control Ab, right: in-house clone C7F1

Compared with the control antibody: a well-known brand（Catalog number: 11180-2-AP）, the mouse monoclonal antibody C7F1 developed by our center has stronger specificity and a cleaner background.