

Mouse PCSK1 / PC1 Monoclonal Antibody | anti-PCSK1 antibody

Mouse Monoclonal [clone 3D2] (IgG3,k) to Human PCSK1 / PC1

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA51894	Mouse	Human, Mouse, Rat	ELISA, Western Blot, Immunofluorescence, Immunohistochemistry

PRODUCT SYNONYMS

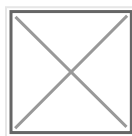
PCSK1 / PC1; Monoclonal Antibody; Mouse Monoclonal [clone 3D2] (IgG3; k) to Human PCSK1 / PC1; Anti-PCSK1 / PC1 Antibody (clone 3D2) IHC-plus; PCSK1; Pc1/3; PC1; Prohormone convertase 3; SPC3; Neuroendocrine convertase 1; PC3; Prohormone convertase 1; BMIQ12; NEC 1; NEC1; Proprotein convertase 1; Human PCSK1; anti-PCSK1 antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human, Mouse, Rat
Clonality	Monoclonal
Isotype	IgG3,k
Clone Number	3D2
Specificity	Human PCSK1
Purity/Purification	Purified from ascites by Protein A
Form/Format	PBS, pH 7.4.
Concentration	0.48 mg/ml (varies by lot)
Sequence Length	753
Applicable Applications for anti-PCSK1 antibody	ELISA, WB (Western Blot), IF (Immunofluorescence), IHC (Immunohistochemistry)
Family/Subfamily	Protease/Serine S8
Immunogen Species	Human
Antigen Type	Recombinant Protein
Immunogen	PCSK1 (NP_000430, 652 a.a. ~ 754 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Immunogen	PCSK1 / PC1 antibody was raised against pCSK1 (NP_000430, 652 a.a. ~ 754 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Disclaimer	Due to the highly specific nature of antibodies and antigens, we cannot predict or be held responsible with respect to how this antibody will behave in your systems. Researchers using this antibody should conduct optimization studies to achieve the most optimal result possible for their intended application.

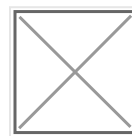
Recommended Immunohistochemistry Protocol	The following protocol is a recommendation only, and AAA Biotech makes no guarantee of the results: Tissue Preparation: Formalin fixation and embedding in paraffin wax. Tissue Sectioning: Make 4-um sections and place on pre-cleaned and charged microscope slides. Heat in a tissue-dryingoven for 45 minutes at 60°C. Deparaffinization: Wash dry slides in 3 changes of xylene - 5 minutes each @ RT Rehydration: Wash slides in 3 changes of 100% alcohol - 3 minutes each @ RT Wash slides in 2 changes of 95% alcohol - 3 minutes each @ RT Wash slides in 1 change of 80% alcohol - 3 minutes @ RT Rinse slides in gentle running distilled water - 5 minutes @ RT Antigen retrieval: Steam slides in 0.01 M sodium citrate buffer, pH 6.0 at 99-100°C - 20 minutes Remove from heat and let stand at room temperature in buffer - 20 minutes Rinse in 1X TBS with Tween (TBST) -1 minute @ RT Immunostaining: (Do not allow tissues to dry at any time during the staining procedure) Apply a universal protein block - 20 minutes @ RT Drain protein block from slides, apply diluted primary antibody - 45 minutes @ RT Rinse slides in 1 X TBST - 1 minute @ RT Apply a biotinylated secondary antibody appropriate for the primary antibody - 30 minutes @ RT Rinse slides in 1X TBST -1 minute @ RT Apply alkaline phosphatase streptavidin - 30 minutes @ RT Rinse slides in 1X TBST -1 minute @ RT Apply alkaline phosphatase chromogen substrate - 30 minutes @ RT Wash slides in distilled water - 1 minute @ RT Dehydrate: (This method should only be used if the chromogen substrate is alcohol insoluble (e.g. Vector Red, DAB) Wash slides in 2 changes of 80% alcohol - 1 minute each @ RT Wash slides in 2 changes of 95% alcohol - 1 minute each @ RT Wash slides in 3 changes of 100% alcohol - 1 minute each @ RT Wash slides in 3 changes of xylene - 1 minute each @ RT Apply coverslip
Preparation and Storage	Store at -20 degree C

IMAGES



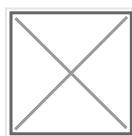
ELISA

Detection limit for recombinant GST tagged PCSK1 is approximately 0.03 ng/ml as a capture antibody.



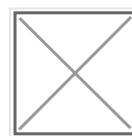
WB (Western Blot)

PCSK1 monoclonal antibody clone 3D2. Western blot of PCSK1 expression in PC-12.



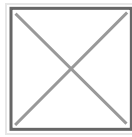
WB (Western Blot)

PCSK1 monoclonal antibody clone 3D2. Western blot of PCSK1 expression in NIH/3T3.



IF (Immunofluorescence)

Immunofluorescence of monoclonal antibody to PCSK1 on HeLa cell. [antibody concentration 30 ug/ml]



IHC (Immunohistochemistry)

Anti-PCSK1 antibody IHC of human brain, cortex. Immunohistochemistry of formalin-fixed, paraffin-embedded tissue after heat-induced antigen retrieval. Antibody concentration 10 ug/ml.

ADDITIONAL INFORMATION

Related Product Information for anti-PCSK1 antibody	PCSK1 is a Serine S8 type protease.
Product Categories/Family for anti-PCSK1 antibody	Family: Protease ; Subfamily: Serine S8

NCBI AND UNIPROT INFORMATION

NCBI GI #	20336242
NCBI GeneID	5122
NCBI Accession #	NP_000430.3
NCBI GenBank Nucleotide #	NM_000439.4
UniProt Accession #	P29120 ; P78478 ; Q92532 ; B7Z8T7 ; E9PHA1
Molecular Weight	79,010 Da
NCBI Official Full Name	neuroendocrine convertase 1 isoform 1 preproprotein
NCBI Official Synonym Full Names	proprotein convertase subtilisin/kexin type 1
NCBI Official Symbol	PCSK1
NCBI Official Synonym Symbols	PC1; PC3; NEC1; SPC3; BMIQ12
NCBI Protein Information	neuroendocrine convertase 1; prohormone convertase 1; prohormone convertase 3
UniProt Protein Name	Neuroendocrine convertase 1
UniProt Gene Name	PCSK1
UniProt Synonym Gene Names	NEC1; NEC 1; PC1
UniProt Entry Name	NEC1_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com

Online datasheet: <https://stage.aaabiotech.com/monoclonal/pcsk1-pc1-antibody-clone-3d2-western-blot-immunofluorescence-immunohistochemistry-elisa/51894>