

Rabbit PC1/3 Polyclonal Antibody | anti-PCSK1 antibody

Anti-PC1/3 antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA11585	Rabbit	Reacts with: Human, rat; Predicted to work with: Mouse	Western Blot, Immunohistochemistry, Immunofluorescence

PRODUCT SYNONYMS

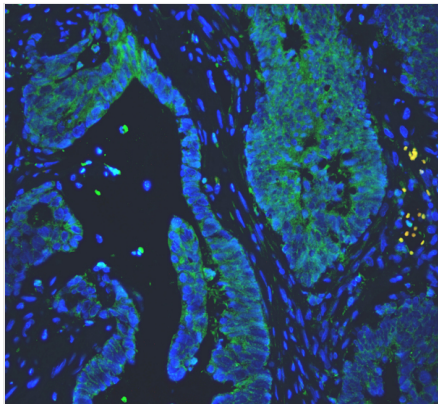
PC1/3; Polyclonal Antibody; Anti-PC1/3 antibody; Neuroendocrine convertase 1; proprotein convertase subtilisin/kexin type 1; BDP antibody; EC antibody; NEC 1 antibody; NEC1 antibody; NEC1_HUMAN antibody; Neuroendocrine convertase 1 antibody; PC1 antibody; PC3 antibody; PCSK1 antibody; Prohormone convertase 1 antibody; Prohormone convertase 1/3 antibody; Prohormone convertase 3 antibody; Proprotein convertase 1 antibody; SPC3 antibody; anti-PCSK1 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Reacts with: Human, rat; Predicted to work with: Mouse
Clonality	Polyclonal
Isotype	IgG
Specificity	No cross reactivity with other proteins.
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized; 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg Thimerosal, 0.05mg NaN3.
Sequence Length	753
Applicable Applications for anti-PCSK1 antibody	WB (Western Blot), IHC (Immunohistochemistry), IF (Immunofluorescence)
Application Notes	Western Blot: Concentration: 0.1-0.5 ug/ml Tested Species: Human, Rat Predicted Species: Mouse Antigen Retrieval: N/A Immunohistochemistry (Paraffin-embedded Section): Concentration: 0.5-1 ug/ml Tested Species: Rat Predicted Species: Human, Mouse Antigen Retrieval: By Heat Immunofluorescence: Concentration: 2 ug/ml Tested Species: Human Predicted Species: N/A Antigen Retrieval: N/A WB: The detection limit for PCSK1 is approximately 1ng/lane under reducing conditions. Tested Species: In-house tested species with positive results. Predicted Species: Species predicted to be fit for the product based on sequence similarities. By Heat: Boiling paraffin section in 10mM citrate buffer, pH6.0, for 20mins is required for the staining of formalin/paraffin sections. Other applications have not been tested. Optimal dilutions should be determined by end users.

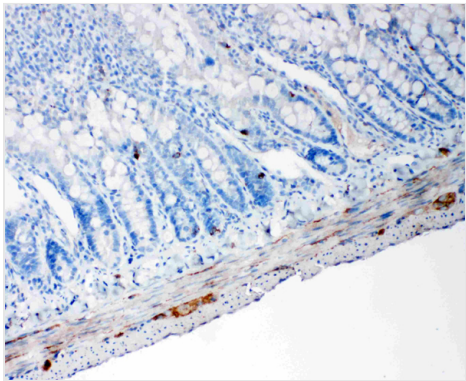
Immunogen	A synthetic peptide corresponding to a sequence at the C-terminus of human PCSK1 (726-740aa DVFYNTKPYKHRDDR), identical to the related mouse and rat sequences.
Reconstitution	0.2ml of distilled water will yield a concentration of 500ug/ml.
Preparation and Storage	At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for a longer time. Avoid repeated freezing and thawing.

IMAGES



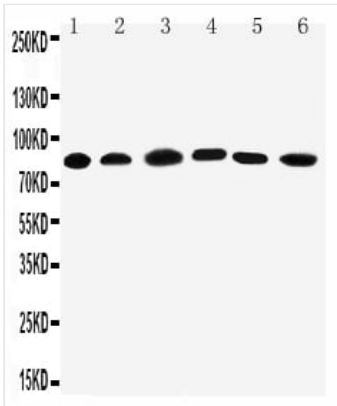
IF (Immunofluorescence)

Figure 3. IF analysis of PC1/3/PCSK1 using anti-PC1/3/PCSK1 antibody PC1/3/PCSK1 was detected in paraffin-embedded section of human colon cancer tissues. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1ug/mL rabbit anti-PC1/3/PCSK1 Antibody overnight at 4 degree C. Biotin conjugated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using DyLight 488 Conjugated Avidin. The section was counterstained with DAPI. Visualize using a fluorescence microscope and filter sets appropriate for the label used.



IHC (Immunohistochemistry)

Figure 2. IHC analysis of PC1/3/PCSK1 using anti-PC1/3/PCSK1 antibody PC1/3/PCSK1 was detected in paraffin-embedded section of rat intestine tissues. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1ug/ml rabbit anti-PC1/3/PCSK1 Antibody overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) with DAB as the chromogen.



WB (Western Blot)

Figure 1. Western blot analysis of PC1/3/PCSK1 using anti-PC1/3/PCSK1 antibody Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 50ug of sample under reducing conditions. Lane 1: Rat Liver Tissue LysateLane 2: Rat Thymus Tissue LysateLane 3: A549 Cell LysateLane 4: HELA Cell LysateLane 5: COLO320 Cell LysateLane 6: PANC Cell Lysate After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA for 50-90 minutes. Blocked the membrane with 5% Non-fat Milk/ TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-PC1/3/PCSK1 antigen affinity purified polyclonal antibody at 0.5 ug/mL overnight at 4 degree C, then washed with TBS- 0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:10000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit with Tanon 5200 system. A specific band was detected for PC1/3/PCSK1 at approximately 84KD. The expected band size for PC1/3/PCSK1 is at 84KD.

ADDITIONAL INFORMATION

Related Product Information for anti-PCSK1 antibody	PCSK1(Proprotein Convertase, Subtilisin/Kexin-Type, 1), also known as PC1 or NEC1, is an enzyme that in humans is encoded by the PCSK1 gene. Proprotein convertase-1 is a neuroendocrine convertase that belongs to a family of subtilisin-like serine endoproteases that process large precursor proteins into mature bioactive products. By in situ hybridization, Seidah et al.(1991) mapped the NEC1 gene to human chromosome 5q15-q21 and mouse chromosome 13. Ohagi et al.(1996) noted that PC1 initiates the sequential processing of proinsulin to insulin by cleaving the proinsulin molecule on the C-terminal side of the dibasic peptide, arg31-arg32, joining the B-chain and C-peptide. By observing the phenotypic features in patients with PC1 mutations, Jackson et al.(2003) concluded that human intestinal absorptive function is dependent on PC1 activity.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	116242674
NCBI GeneID	5122
UniProt Accession #	P29120; P78478; Q92532; B7Z8T7; E9PHA1
NCBI Official Full Name	Neuroendocrine convertase 1
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.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/pc1-3-antibody-western-blot-immunohistochemistry-immunofluorescence-elisa/11585>