

For Research Use Only

PCSK1 Polyclonal antibody

Catalog Number: 28219-1-AP **3 Publications**



Basic Information

Catalog Number: 28219-1-AP	GenBank Accession Number: BC130295	Purification Method: Antigen affinity purification
Size: 150ul , Concentration: 700 ug/ml by Nanodrop;	GeneID (NCBI): 5122	Recommended Dilutions: WB 1:2000-1:16000 IHC 1:50-1:500
Source: Rabbit	UNIPROT ID: P29120	
Isotype: IgG	Full Name: proprotein convertase subtilisin/kexin type 1	
Immunogen Catalog Number: AG28203	Calculated MW: 753 aa, 84 kDa	
	Observed MW: 66 kDa	

Applications

Tested Applications: WB, IHC, ELISA	Positive Controls: WB : BxPC-3 cells, HeLa cells
Cited Applications: WB, IHC	IHC : human pancreas tissue, mouse pancreas tissue, mouse brain tissue
Species Specificity: Human, Mouse, rat	
Cited Species: human, mouse	
Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0	

Background Information

PC1/3, encoded by the gene PCSK1, is synthesized in the endoplasmic reticulum (ER) as an inactive 94 kDa zymogen, where it is rapidly cleaved into a partially active 87-kDa precursor. When this protein reaches the secretory granules, the maturation process continues to generate a 74 kDa species and ends with further cleavage to a fully active, although enzymatically unstable, 66 kDa protein.

Notable Publications

Author	Pubmed ID	Journal	Application
Su Min Hong	39763767	bioRxiv	IHC
Meng Zhang	38887896	Rapid Commun Mass Spectrom	IHC
Mengcheng Jin	38643378	Mol Nutr Food Res	WB

Storage

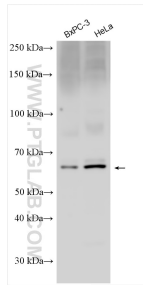
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

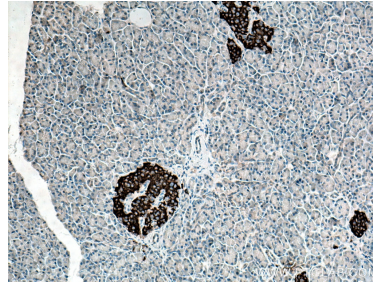
For technical support and original validation data for this product please contact:
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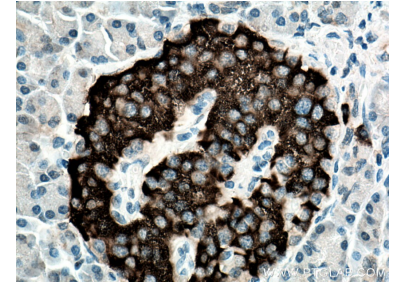
Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 28219-1-AP (PCSK1 antibody) at dilution of 1:8000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human pancreas tissue slide using 28219-1-AP (PCSK1 antibody) at dilution of 1:200 (under 10x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human pancreas tissue slide using 28219-1-AP (PCSK1 antibody) at dilution of 1:200 (under 40x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).