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PCSK2 Antibody (N-term)

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP7617A

Product Information

Application	WB, IHC-P, IF, FC, E
Primary Accession	P16519
Other Accession	P28841, Q03333, P21661
Reactivity	Human, Mouse
Predicted	Pig, Rat, Bovine, Canine, Rabbit, Chicken
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB18543
Calculated MW	70565
Antigen Region	87-116

Additional Information

Gene ID	5126
Other Names	Neuroendocrine convertase 2, NEC 2, KEX2-like endoprotease 2, Prohormone convertase 2, Proprotein convertase 2, PC2, PCSK2, NEC2
Target/Specificity	This PCSK2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 87-116 amino acids from the N-terminal region of human PCSK2.
Dilution	WB~~1:1000 IHC-P~~1:100~500 IF~~1:10~50 FC~~1:10~50 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	PCSK2 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	PCSK2
Synonyms	NEC2

Function	Serine endopeptidase which is involved in the processing of hormone and other protein precursors at sites comprised of pairs of basic amino acid residues (PubMed:28719828, PubMed:7626024, PubMed:8879041, PubMed:9287128). Responsible for the release of glucagon from proglucagon in pancreatic A cells (PubMed:9287128). Mediates the release of insulin from proinsulin (PubMed:7626024).
Cellular Location	Cytoplasmic vesicle, secretory vesicle. Secreted. Note=Localized in the secretion granules

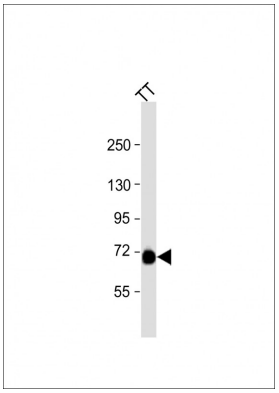
Background

PCSK2 belongs to the subtilisin-like proprotein convertase family. The members of this family are proprotein convertases that process latent precursor proteins into their biologically active products. This protein is a proinsulin-processing enzyme that plays a key role in regulating insulin biosynthesis. The protein is also known to cleave proopiomelanocortin, proenkephalin, prodynorphin and proluteinizing-hormone-releasing hormone.

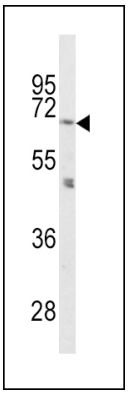
References

Leak,T.S., Keene,K.L. Mol. Genet. Metab. 92 (1-2), 145-150 (2007)
Shen,X., Li,Q.L. Am. J. Physiol. Endocrinol. Metab. 288 (1), E236-E245 (2005)
Tzimas,G.N., Chevet,E. BMC Cancer 5, 149 (2005)
Seidah,N.G., Mattei,M.G. Genomics 11 (1), 103-107 (1991)

Images

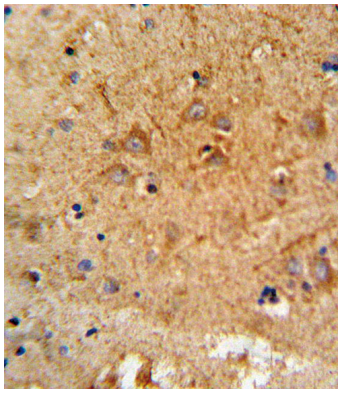


Anti-PCSK2 Antibody (N-term) at 1:1000 dilution + TT whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 71 kDa Blocking/Dilution buffer: 5% NFDM/TBST.

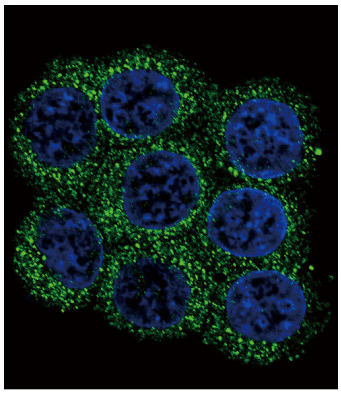


Western blot analysis of PCSK2 Antibody (N-term) (Cat. #AP7617a) in mouse cerebellum tissue lysates (35ug/lane). PCSK2 (arrow) was detected using the purified Pab.

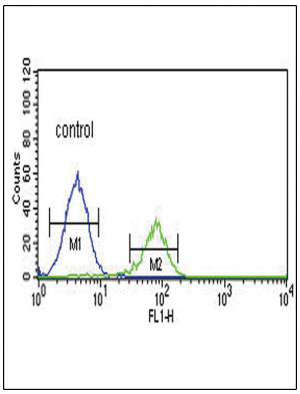
Formalin-fixed and paraffin-embedded human brain tissue reacted with PCSK2 Antibody (N-term), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use



of this antibody for immunohistochemistry; clinical relevance has not been evaluated.



Confocal immunofluorescent analysis of PCSK2 Antibody (N-term)(Cat#AP7617a) with 293 cell followed by Alexa Fluor 488-conjugated goat anti-rabbit lgG (green). DAPI was used to stain the cell nuclear (blue).



PCSK2 Antibody (N-term) (Cat. #AP7617a) flow cytometric analysis of K562 cells (right histogram) compared to a negative control cell (left histogram).FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.