10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

PCSK6 Antibody (C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP14833b

Product Information

Application	WB, E
Primary Accession	P29122
Other Accession	NP_612197.1, NP_612194.1, NP_612196.1
Reactivity	Human
Predicted	Bovine, Rabbit
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB34608
Calculated MW	106420
Antigen Region	659-688

Additional Information

Gene ID	5046
Other Names	Proprotein convertase subtilisin/kexin type 6, 3421-, Paired basic amino acid cleaving enzyme 4, Subtilisin-like proprotein convertase 4, SPC4, Subtilisin/kexin-like protease PACE4, PCSK6, PACE4
Target/Specificity	This PCSK6 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 659-688 amino acids from the C-terminal region of human PCSK6.
Dilution	WB~~1:1000 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
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	PCSK6 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	PCSK6
Synonyms	PACE4

Function	Serine endoprotease that processes various proproteins by cleavage at paired basic amino acids, recognizing the RXXX[KR]R consensus motif. Likely functions in the constitutive secretory pathway, with unique restricted distribution in both neuroendocrine and non-neuroendocrine tissues.
Cellular Location	[Isoform PACE4A-I]: Secreted. [Isoform PACE4C]: Endoplasmic reticulum. Note=Not secreted, remains probably in zymogen form in endoplasmic reticulum [Isoform PACE4E-I]: Endomembrane system; Peripheral membrane protein. Note=Retained intracellularly probably through a hydrophobic cluster in their C-terminus [Isoform PACE4B]: Secreted.
Tissue Location	Each PACE4 isoform exhibits a unique restricted distribution. Isoform PACE4A-I is expressed in heart, brain, placenta, lung, skeletal muscle, kidney, pancreas, but at comparatively higher levels in the liver. Isoform PACE4A-II is at least expressed in placenta. Isoform PACE4B was only found in the embryonic kidney cell line from which it was isolated. Isoform PACE4C and isoform PACE4D are expressed in placenta. Isoform PACE4E-I is expressed in cerebellum, placenta and pituitary. Isoform PACE4E-II is at least present in cerebellum

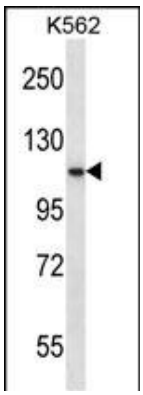
Background

The protein encoded by this gene 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 encoded protein is a calcium-dependent serine endoprotease that can cleave precursor protein at their paired basic amino acid processing sites. Some of its substrates are - transforming growth factor beta related proteins, proalbumin, and von Willebrand factor. This gene is thought to play a role in tumor progression. Alternatively spliced transcript variants encoding different isoforms have been identified.

References

Bailey, S.D., et al. Diabetes Care 33(10):2250-2253(2010)
Rose, J.E., et al. Mol. Med. 16 (7-8), 247-253 (2010) :
Fuller, J.A., et al. Invest. Ophthalmol. Vis. Sci. 50(12):5759-5768(2009)
Talmud, P.J., et al. Am. J. Hum. Genet. 85(5):628-642(2009)
Blanchet, M.H., et al. EMBO J. 27(19):2580-2591(2008)

Images



PCSK6 Antibody (C-term) (Cat. #AP14833b) western blot analysis in K562 cell line lysates (35ug/lane).This demonstrates the PCSK6 antibody detected the PCSK6 protein (arrow).

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