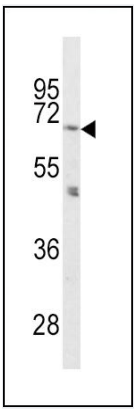
Proprotein Convertase 2 (PC2) Antibody – Rabbit Polyclonal

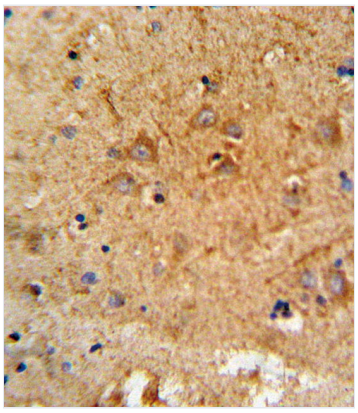
PRODUCT OVERVIEW

Product Name	Proprotein Convertase 2 (PC2), Polyclonal Antibody
Full Product Name	Proprotein Convertase 2, NT (PC2, KEX2 Like Endoprotease 2, KEX2-like Endoprotease 2, Neuroendocrine Convertase 2, NEC 2, NEC2, Prohormone Convertase 2, Proprotein Convertase Subtilisin/kexin Type 2, PC2, PCSK2, SPC2) (APC)
Product Gene Name	anti-PC2 antibody
Product Synonym Names	EC=3.4.21.94; NEC-2
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Mouse
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Allophycocyanin (APC).
Purity/Purification	Purified by Ammonium Sulfate Precipitation.
Specificity	Recognizes human PCSK2. Species Crossreactivity: mouse.
Preparation and Storage	May be stored at 4 degree C for short-term only. Aliquot to avoid repeated freezing and thawing. Store at -20 degree C. Aliquots are stable for at least 12 months. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap.
Molecular Weight	58kDa
OMIM	162151
3D Structure	ModBase 3D Structure for P16519
Immunogen	Synthetic peptide selected from the N-terminal region of human PCSK2 (KLH).
Conjugate	APC
Note	Preservative Free
Product Categories/Family for anti-PC2 antibody	Antibodies; Hormones; Steroids
Applications Tested/Suitable for anti-PC2 antibody	Western Blot (WB), ELISA (EIA)
Application Notes for anti-PC2 antibody	WB: 1:50-1:100 ELISA: 1:1,000 Applications are based on unconjugated antibody.
Related Product Information for anti-PC2 antibody	MBS6494700 is an antibody targeting PC2. Also known as Proprotein Convertase 2, NT (PC2, KEX2 Like Endoprotease 2, KEX2-like Endoprotease 2, Neuroendocrine Convertase 2, NEC 2, NEC2, Prohormone Convertase 2, Proprotein Convertase Subtilisin/kexin Type 2, PC2, PCSK2, SPC2) (APC). Reactive in Human, Mouse. Host: Rabbit.
Product References and Citations for anti-PC2 antibody	1. Leak, T.S., Keene, K.L. Mol. Genet. Metab. 92(1-2), 145-150 (2007). 2. Shen, X., Li, Q.L. Am. J. Physiol. Endocrinol. Metab. 288(1), E236-E245 (2005). 3. Tzimas, G.N., Chevet, E. BMC Cancer 5, 149 (2005). 4. Seidah, N.G., Mattei, M.G. Genomics 11(1), 103-107 (1991).

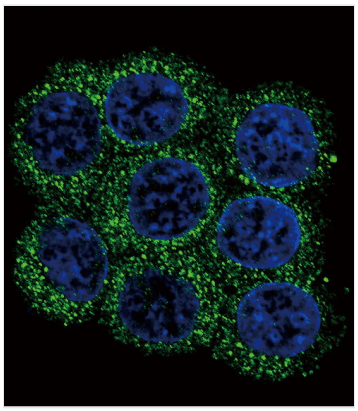
Other Notes	Small volumes of anti-PC2 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.



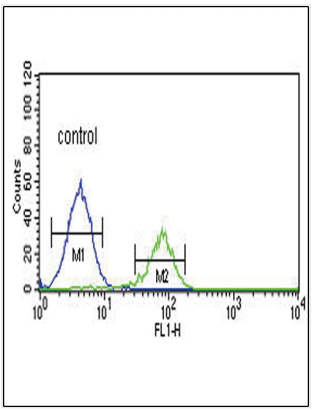
Western Blot (WB) of anti-PC2 antibody
Western blot analysis of PCSK2 Antibody (N-term) in mouse cerebellum tissue lysates (35ug/lane). PCSK2 (arrow) was detected using the purified Pab.



Immunohistochemistry (IHC) of anti-PC2 antibody
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.



Immunofluorescence (IF) of anti-PC2 antibody
Confocal immunofluorescent analysis of PCSK2 Antibody (N-term) with 293 cell followed by Alexa Fluor 488-conjugated goat anti-rabbit IgG (green). DAPI was used to stain the cell nuclear (blue).



Flow Cytometry (FC/FACS) of anti-PC2 antibody
PCSK2 Antibody (N-term) 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.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for PC2. It may not necessarily be applicable to this product.

NCBI GI #	20336244
NCBI GeneID	5126
NCBI Accession #	NP_002585
UniProt Primary Accession #	P16519
UniProt Related Accession #	P16519
GenBank Nucleotide #	NM_002594
NCBI Official Full Name	neuroendocrine convertase 2 isoform 1 preproprotein
NCBI Official Synonym Full Names	proprotein convertase subtilisin/kexin type 2
NCBI Official Symbol	PCSK2
NCBI Official Synonym Symbols	PC2; NEC2; SPC2; NEC 2; NEC-2

UniProt Protein Name	Neuroendocrine convertase 2
UniProt Synonym Protein Names	KEX2-like endoprotease 2; Prohormone convertase 2; Proprotein convertase 2; PC2
Protein Family	Putative envelope glycoprotein
UniProt Gene Name	PCSK2
UniProt Synonym Gene Names	NEC2; NEC 2; PC2
UniProt Entry Name	NEC2_HUMAN
NCBI Protein Information	neuroendocrine convertase 2
NCBI Summary for PC2	This gene encodes a member of the subtilisin-like proprotein convertase family, which includes proteases that process protein and peptide precursors trafficking through regulated or constitutive branches of the secretory pathway. The protein undergoes an initial autocatalytic processing event and interacts with a neuroendocrine secretory protein in the ER, exits the ER and sorts to secretory granules, where it is cleaved and catalytically activated during intracellular transport. The encoded protease is packaged into and activated in dense core secretory granules and expressed in the neuroendocrine system and brain. This gene encodes one of the seven basic amino acid-specific members which cleave their substrates at single or paired basic residues. It functions in the proteolytic activation of polypeptide hormones and neuropeptides precursors. Single nucleotide polymorphisms in this gene may increase susceptibility to myocardial infarction and type 2 diabetes. This gene may also play a role in tumor development and progression. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene. [provided by RefSeq, Jan 2014]
UniProt Comments for PC2	PCSK2: Involved in the processing of hormone and other protein precursors at sites comprised of pairs of basic amino acid residues. Belongs to the peptidase S8 family. Furin subfamily. 2 isoforms of the human protein are produced by alternative splicing. Protein type: Protease; EC 3.4.21.94 Chromosomal Location of Human Ortholog: 20p11.2 Cellular Component: extracellular space; transport vesicle; membrane; dendrite; perikaryon Molecular Function: protein binding; serine-type endopeptidase activity; protein complex binding Biological Process: insulin processing; nervous system development; protein autoprocessing; cellular protein metabolic process; proteolysis
Research Articles on PC2	**1.** PCSK2 gene polymorphisms are associated with pleiotropic effects on various traits of glucose homeostasis and incident diabetes.
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