PCSK2 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	PCSK2, Polyclonal Antibody
Full Product Name	PCSK2 (Neuroendocrine Convertase 2, NEC 2, KEX2-like Endoprotease 2, Prohormone Convertase 2, Proprotein Convertase 2, PC2, NEC2) (MaxLig
Product Gene Name	anti-PCSK2 antibody
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 MaxLight650.
Purity/Purification	Purified by Protein A Affinity Chromatography.
Specificity	Recognizes human PCSK2. Species Crossreactivity: mouse.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amo
Molecular Weight	68,580 Da
OMIM	162151
3D Structure	ModBase 3D Structure for P16519
Immunogen	Full length human PCSK2, aa1-638 (NP_002585.2).
Immunogen Sequence	MKGGCVSQWKAAAGFLFCVMVFASAERPVFTNHFLVELHKGGEDKARQVAAEHGFGVRKLPFAEGLYHFYHNGLAKAKRRRSLHHKQQLERDPRVKM
Conjugate	MaxLight650
Note	Preservative Free
Product Categories/Family for anti-PCSK2 antibody	Antibodies; Enzymes
Applications Tested/Suitable for anti-PCSK2 antibody	Western Blot (WB)
Application Notes for anti-PCSK2 antibody	Applications are based on unconjugated antibody.
Related Product Information for anti-PCSK2 antibody	PCSK2 belongs to the subtilisin-like proprotein convertase family. The members of this family are proprotein convertases that process latent precursor

Other Notes	Small volumes of anti-PCSK2 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If neces
Searchable Terms for PCSK2 purchase	MBS6388654 is an antibody targeting PCSK2. Also known as PCSK2 (Neuroendocrine Convertase 2, NEC 2, KEX2-like Endoprotease 2, Prohormone

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for PCSK2. It may not necessarily be applicable to this product.

NCBI GI #	20336244
NCBI GeneID	5126
NCBI Accession #	NP_002585.2
UniProt Primary Accession #	P16519
UniProt Secondary Accession #	Q14927; Q5JYQ1; Q8IWA8; Q9NQG3; Q9NUG1; Q9UJC6; B1ANH9; B4DFQ3
UniProt Related Accession #	P16519
GenBank Nucleotide #	NM_002594.2
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	Neuroendocrine convertase
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 PCSK2	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 PCSK2	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 PCSK2	**1.** PCSK2 gene polymorphisms are associated with pleiotropic effects on various traits of glucose homeostasis and incident diabetes.
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