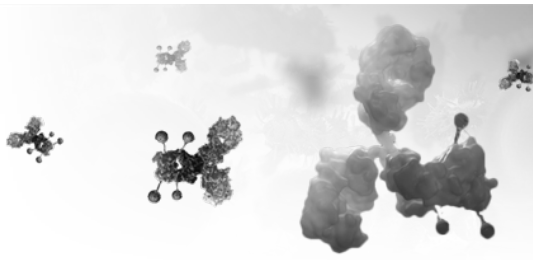

PCSK1 peptide (DAG-P0986)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Antigen Description	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 encoded protein undergoes an initial autocatalytic processing event in the ER to generate a heterodimer which exits the ER and sorts to subcellular compartments where a second autocatalytic even takes place and the catalytic activity is acquired. The 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. Mutations in this gene have been associated with susceptibility to obesity and proprotein convertase 1/3 deficiency. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene [provided by RefSeq, Jan 2014]
Purity	> 95 % by SDS-PAGE.
Conjugate	Unconjugated
Applications	ELISA, WB
Sequence Similarities	Belongs to the peptidase S8 family. Furin subfamily.
Format	Liquid
Buffer	Preservative: None Constituents: 0.001% Tween 20, 30mM HEPES, 2mM EDTA, 150mM Sodium chloride, pH 6.75
Preservative	None
Storage	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles. Preservative: None Constituents: 0.001% Tween 20, 30mM HEPES, 2mM EDTA, 150mM Sodium chloride, pH 6.75

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GENE INFORMATION

Gene Name	PCSK1 proprotein convertase subtilisin/kexin type 1 [Homo sapiens (human)]
Official Symbol	PCSK1
Synonyms	PCSK1; proprotein convertase subtilisin/kexin type 1; PC1; PC3; NEC1; SPC3; BMIQ12; neuroendocrine convertase 1; prohormone convertase 1; prohormone convertase 3;
Entrez Gene ID	5122
mRNA Refseq	NM_000439.4
Protein Refseq	NP_000430.3
UniProt ID	P29120
Chromosome Location	5q15-q21
Pathway	Incretin Synthesis, Secretion, and Inactivation, organism-specific biosystem; Insulin Processing, organism-specific biosystem; Metabolism of proteins, organism-specific biosystem; Peptide hormone biosynthesis, organism-specific biosystem; Peptide hormone metabolism, organism-specific biosystem; Synthesis, Secretion, and Deacylation of Ghrelin, organism-specific biosystem; Synthesis, Secretion, and Inactivation of Glucagon-like Peptide-1 (GLP-1), organism-specific biosystem; Synthesis, Secretion,
Function	serine-type endopeptidase activity; serine-type endopeptidase activity; serine-type endopeptidase activity;

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