

Recombinant Human PCSK2 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. PCSK2-2293H Lot. No. (See product label)

SPECIFICATION

Product Overview	PCSK2 MS Standard C13 and N15-labeled recombinant protein (NP_002585) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
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 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.
Molecular Mass	70.57 kDa

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AA Sequence

MKGGCVSQWKAAAGFLFCVMVFASAERPVTNHFLVELHKGGEDKARQVAAEHGF
 GVRKLPFAEGLYHFYHNGLAKAKRRRSLHHKQQLERDPRVKMALQQEGFDRKKRG
 YRDINEIDINMNDPLFTKQWYLINTGQADGTPGLDLNVAEAWELGYTGKGVITIGIMD
 DGIDYLHPDLASNYNAEASYDFSSNDPYPYPRYTDDWFNSHGTRCAGEVSAAANN
 NICGVGVAYNSKVAGIRMLDQPFMTDIEASSISHMPQLIDIYSASWGPTDNGKTVDG
 PRELTLQAMADGVNKGKRGKGSYVWASGDGGSYDDCNCDDGYASSMWTISINSAI
 NDGRTALYDESCSSTLASTFSNGRKRNPAGVATTDLYGNCTLRHSGTSAAPEAA
 GVFALEALANLGLTWRDMQHLTVLTSKRNLHDEVHQWRRNGVGLFNLFGYGV
 LDAGAMVKMAKDWKTVPERFHCVGGSVQDPEKIPSTGKLVLTITDACEGKENFVR
 YLEHVQAVITVNATRRGDLNINMTSPMGTKSILLSRRPRDDDSKVGFDKWPFTTHT
 WGEDARGTWTLELGFVGSAPQKGVLEWTLMLHGTQSAPYIDQVVRDYQSKLAMS
 KKEEEEEELDEAVERSLKSILNKNTRTRPLEQKLISEEDLAANDILDYKDDDDKV

Purity

> 80% as determined by SDS-PAGE and Coomassie blue staining

Stability

Stable for 3 months from receipt of products under proper storage and handling conditions.

Storage

Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

Concentration

50 µg/mL as determined by BCA

Storage Buffer

100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION
Gene Name

PCSK2 proprotein convertase subtilisin/kexin type 2 [Homo sapiens (human)]

Official Symbol

PCSK2

Synonyms

PCSK2; proprotein convertase subtilisin/kexin type 2; NEC2; neuroendocrine

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convertase 2; KEX2 like endoprotease 2; PC2; SPC2; prohormone convertase 2;
KEX2-like endoprotease 2; NEC 2; NEC-2;

Gene ID [5126](#)

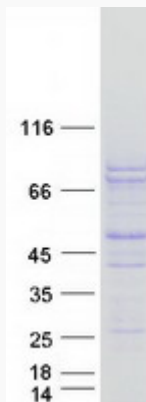
mRNA Refseq [NM_002594](#)

Protein Refseq [NP_002585](#)

MIM [162151](#)

UniProt ID [P16519](#)

SDS-PAGE



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