



PCSK7 peptide (DAG-P0976)

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. It encodes a type 1 membrane bound protease that is expressed in many tissues, including neuroendocrine, liver, gut, and brain. The encoded protein undergoes an initial autocatalytic processing event in the ER and then sorts to the trans-Golgi network through endosomes where a second autocatalytic event takes place and the catalytic activity is acquired. This gene encodes one of the seven basic amino acid-specific members which cleave their substrates at single or paired basic residues. It can process proalbumin and is thought to be responsible for the activation of HIV envelope glycoproteins gp160 and gp140. This gene has been implicated in the transcriptional regulation of housekeeping genes and plays a role in the regulation of iron metabolism. A t(11;14)(q23;q32) chromosome translocation associated with B-cell lymphoma occurs between this gene and its inverted counterpart. [provided by RefSeq, Feb 2014]

Specificity	Expressed in spleen, thymus, prostate, testis, ovary, small intestine, colon and peripheral blood leukocyte.
Purity	> 95 % by SDS-PAGE.
Conjugate	Unconjugated
Applications	ELISA, WB
Sequence Similarities	Belongs to the peptidase S8 family. Contains 1 homo B/P domain.
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	PCSK7 proprotein convertase subtilisin/kexin type 7 [Homo sapiens (human)]
Official Symbol	PCSK7
Synonyms	PCSK7; proprotein convertase subtilisin/kexin type 7; LPC; PC7; PC8; SPC7; prohormone convertase 7; proprotein convertase 7; proprotein convertase 8; prohormone convertase PC7; proprotein convertase PC7; lymphoma proprotein convertase; subtilisin/kexin-like protease PC7;
Entrez Gene ID	9159
mRNA Refseq	NM_004716.3
Protein Refseq	NP_004707.2
UniProt ID	Q16549
Chromosome Location	11q23-q24
Function	peptidase activity; serine-type endopeptidase activity;