



## PCSK5 peptide (DAG-P0988)

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

### PRODUCT INFORMATION

|                              |  |
|------------------------------|--|
| <b>Antigen Description</b>   | 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. It then sorts to the trans-Golgi network where a second autocatalytic event takes place and the catalytic activity is acquired. This encoded protein is widely expressed and one of the seven basic amino acid-specific members which cleave their substrates at single or paired basic residues. It mediates posttranslational endoproteolytic processing for several integrin alpha subunits and is thought to process prorenin, pro-membrane type-1 matrix metalloproteinase and HIV-1 glycoprotein gp160. Alternate splicing results in two variants encoding distinct isoforms, a protease packaged into dense core granules (PC5A) and a type 1 membrane bound protease (PC5B). [provided by RefSeq, Jan 2014] |
| <b>Specificity</b>           | Expressed in T-lymphocytes.  |
| <b>Purity</b>                | > 95 % by SDS-PAGE.  |
| <b>Conjugate</b>             | Unconjugated   |
| <b>Applications</b>          | ELISA, WB  |
| <b>Sequence Similarities</b> | Belongs to the peptidase S8 family.Contains 1 homo B/P domain.Contains 1 PLAC domain.  |
| <b>Format</b>                | Liquid   |
| <b>Buffer</b>                | Preservative: None Constituents: 0.001% Tween 20, 30mM HEPES, 2mM EDTA, 150mM Sodium chloride, pH 6.75   |
| <b>Preservative</b>          | None   |
| <b>Storage</b>               | 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,  |

## GENE INFORMATION

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|---------------------|--|
| Gene Name           | <a href="#">PCSK5 proprotein convertase subtilisin/kexin type 5 [ Homo sapiens (human) ]</a>   |
| Official Symbol     | PCSK5  |
| Synonyms            | PCSK5; proprotein convertase subtilisin/kexin type 5; PC5; PC6; PC6A; SPC6; subtilase; protease PC6; prohormone convertase 5; proprotein convertase 6; subtilisin/kexin-like protease PC5; |
| Entrez Gene ID      | <a href="#">5125</a>   |
| mRNA Refseq         | <a href="#">NM_001190482.1</a>   |
| Protein Refseq      | <a href="#">NP_001177411.1</a>   |
| UniProt ID          | Q92824   |
| Chromosome Location | 9q21.3   |
| Pathway             | NGF processing, organism-specific biosystem; Signal Transduction, organism-specific biosystem; Signalling by NGF, organism-specific biosystem;   |
| Function            | peptidase activity; peptide binding; serine-type endopeptidase activity;   |