

PCSK7 Antibody (C-term) Blocking peptide
Synthetic peptide
Catalog # BP14045b**Specification**

PCSK7 Antibody (C-term) Blocking peptide - Product InformationPrimary Accession [Q16549](#)**PCSK7 Antibody (C-term) Blocking peptide - Additional Information****Gene ID** 9159**Other Names**

Proprotein convertase subtilisin/kexin type 7, 3421-, Lymphoma proprotein convertase, Prohormone convertase 7, Proprotein convertase 7, PC7, Proprotein convertase 8, PC8, hPC8, Subtilisin/kexin-like protease PC7, PCSK7, LPC, PC7, PC8, SPC7

Target/Specificity

The synthetic peptide sequence used to generate the antibody AP14045b was selected from the C-term region of PCSK7. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

PCSK7 Antibody (C-term) Blocking peptide - Protein Information**Name** PCSK7**Synonyms** LPC, PC7, PC8, SPC7**Function**

Serine endoprotease that processes various proproteins by cleavage at paired basic amino acids, recognizing the RXXX[KR]R consensus motif. Likely functions in the constitutive secretory pathway.

Cellular Location

Golgi apparatus, trans-Golgi network membrane; Single-pass type I membrane protein
Note=Seems to be localized intracellularly to the trans Golgi network

Tissue Location

Expressed in spleen, thymus, prostate, testis, ovary, small intestine, colon and peripheral blood leukocyte

PCSK7 Antibody (C-term) Blocking peptide - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Blocking Peptides](#)

PCSK7 Antibody (C-term) Blocking peptide - Images

PCSK7 Antibody (C-term) Blocking peptide - Background

The protein encoded by this gene belongs to the subtilisin-like proprotein convertase family. The members of this family are proprotein convertases that process latent precursor proteins into their biologically active products. This encoded protein is a calcium-dependent serine endoprotease. It is structurally related to its family members, PACE and PACE4. This protein is concentrated in the trans-Golgi network, associated with the membranes, and is not secreted. 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. Multiple alternatively spliced transcripts are described for this gene but their full length nature is not yet known. Downstream of this gene's map location at 11q23-q24, nucleotides that match part of this gene's 3' end are duplicated and inverted. A translocation breakpoint associated with lymphoma occurs between this gene and its inverted counterpart.

PCSK7 Antibody (C-term) Blocking peptide - References

Leonhardt, R.M., et al. J. Immunol. 184(6):2985-2998(2010) McColl, B.K., et al. FASEB J. 21(4):1088-1098(2007) Bruzzaniti, A., et al. Peptides 23(5):863-875(2002) Fugere, M., et al. J. Biol. Chem. 277(10):7648-7656(2002) Pearton, D.J., et al. Exp. Dermatol. 10(3):193-203(2001)