

**PCSK4 Antibody (N-term) Blocking Peptide**  
**Synthetic peptide**  
**Catalog # BP16878a****Specification**

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**PCSK4 Antibody (N-term) Blocking Peptide - Product Information**Primary Accession [Q6UW60](#)**PCSK4 Antibody (N-term) Blocking Peptide - Additional Information****Gene ID** 54760**Other Names**Proprotein convertase subtilisin/kexin type 4, 3421-, Proprotein convertase 4, PC4, PCSK4  
{ECO:0000312|EMBL:AAH363541}**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.

**PCSK4 Antibody (N-term) Blocking Peptide - Protein Information****Name** PCSK4 {ECO:0000312|EMBL:AAH36354.1}**Function**

Proprotein convertase involved in the processing of hormone and other protein precursors at sites comprised of pairs of basic amino acid residues (By similarity). In males, important for ADAM2 processing as well as other acrosomal proteins with roles in fertilization and critical for normal fertilization events such as sperm capacitation, acrosome reaction and binding of sperm to zona pellucida (By similarity). Also plays a role in female fertility, involved in the regulation of trophoblast migration and placental development, may be through the proteolytical processing and activation of proteins such as IGF2 (PubMed:<a href="http://www.uniprot.org/citations/16040806" target="\_blank">16040806</a>). May also participate in folliculogenesis in the ovaries (By similarity).

**Cellular Location**

Membrane; Single-pass membrane protein. Cytoplasmic vesicle, secretory vesicle, acrosome membrane {ECO:0000250|UniProtKB:P29121}

**Tissue Location**

Placenta..

## **PCSK4 Antibody (N-term) Blocking Peptide - Protocols**

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

- [Blocking Peptides](#)

## **PCSK4 Antibody (N-term) Blocking Peptide - Images**

## **PCSK4 Antibody (N-term) Blocking Peptide - Background**

Proprotein convertases, including PCSK4, are calcium-dependent serine proteases related to bacterial subtilisins and to yeast kexin. These enzymes process precursor proteins to their active forms by selective cleavage of the polypeptide at sites following paired basic amino acids. In mammals, this family comprises PC1 (MIM 162150), PC2 (MIM 162151), PC4, PC5 (MIM 600488), furin (FUR; MIM 136950), and PACE4 (MIM 167405). Substrates for these enzymes range from prohormones to precursors for growth factors to cell surface receptors and viral surface glycoproteins (Cao et al., 2001 [PubMed 11776387]). [supplied by OMIM].

## **PCSK4 Antibody (N-term) Blocking Peptide - References**

Bailey, S.D., et al. Diabetes Care (2010) In press : Talmud, P.J., et al. Am. J. Hum. Genet. 85(5):628-642(2009) Batta, K., et al. J. Mol. Biol. 385(3):788-799(2009) Qiu, Q., et al. Proc. Natl. Acad. Sci. U.S.A. 102(31):11047-11052(2005) Clark, H.F., et al. Genome Res. 13(10):2265-2270(2003)