

**TMPRSS13 Antibody (C-term) Blocking Peptide**  
**Synthetic peptide**  
**Catalog # BP14675b****Specification**

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**TMPRSS13 Antibody (C-term) Blocking Peptide - Product Information**Primary Accession [Q9BYE2](#)**TMPRSS13 Antibody (C-term) Blocking Peptide - Additional Information****Gene ID** 84000**Other Names**

Transmembrane protease serine 13, 3421-, Membrane-type mosaic serine protease, Mosaic serine protease, TMPRSS13, MSP, TMPRSS11

**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.

**TMPRSS13 Antibody (C-term) Blocking Peptide - Protein Information****Name** TMPRSS13**Synonyms** MSP, TMPRSS11**Function**

Serine protease (PubMed:<a href="http://www.uniprot.org/citations/20977675" target="\_blank">20977675</a>, PubMed:<a href="http://www.uniprot.org/citations/28710277" target="\_blank">28710277</a>, PubMed:<a href="http://www.uniprot.org/citations/34562451" target="\_blank">34562451</a>). Cleaves the proform of PRSS8/prostasin to form the active protein (PubMed:<a href="http://www.uniprot.org/citations/34562451" target="\_blank">34562451</a>). Cleaves the proform of HGF to form the active protein which promotes MAPK signaling (PubMed:<a href="http://www.uniprot.org/citations/20977675" target="\_blank">20977675</a>). Promotes the formation of the stratum corneum and subsequently the epidermal barrier in embryos (By similarity).

**Cellular Location**

Cell membrane; Single-pass type II membrane protein. Secreted. Cytoplasm Note=The non-phosphorylated, inactive full length protein localizes intracellularly (PubMed:28710277). N-glycosylation and phosphorylation is required for trafficking to the cell surface (PubMed:28710277, PubMed:34562451, PubMed:35796294). Interaction with SPINT1/HAI-1 and

SPINT2/HAI-2 facilitate its translocation to the cell surface (PubMed:34562451, PubMed:35796294). Proteolytic cleavage is required for secretion (PubMed:35796294).

**Tissue Location**

Expressed in placenta. [Isoform 3]: Expressed in lung, placenta, pancreas, and prostate (PubMed:11267681). Weakly expressed in testis and peripheral blood lymphocytes (PubMed:11267681)

**TMPRSS13 Antibody (C-term) Blocking Peptide - Protocols**

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

- [Blocking Peptides](#)

**TMPRSS13 Antibody (C-term) Blocking Peptide - Images****TMPRSS13 Antibody (C-term) Blocking Peptide - Background**

TMPRSS13 is a cell membrane serine protease. It is a member of a larger family of membrane attached serine proteases, a poorly defined group that includes TMPRSS11A, B, C, D, E, F, Hepsin, Corin, Matriptase 1, 2 and 3. TMPRSS13 has a domain structure of an aminoterminal cytoplasmic domain, which is much longer than the other TMPRSS family members, followed by a transmembrane domain, an SRCR domain (Scavenger receptor cysteine rich), an LDL receptor like domain, another SRCR domain, followed by the trypsin like serine protease domain. The cytoplasmic domain contains a number of tandem repeat elements, the function of which is not clear, but which may play a regulatory role.