

HPN Antibody (Center) Blocking Peptide
Synthetic peptide
Catalog # BP9511c**Specification**

HPN Antibody (Center) Blocking Peptide - Product InformationPrimary Accession [P05981](#)**HPN Antibody (Center) Blocking Peptide - Additional Information****Gene ID** 3249**Other Names**

Serine protease hepsin, Transmembrane protease serine 1, Serine protease hepsin non-catalytic chain, Serine protease hepsin catalytic chain, HPN, TMPRSS1

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.

HPN Antibody (Center) Blocking Peptide - Protein Information**Name** HPN**Synonyms** TMPRSS1**Function**

Serine protease that cleaves extracellular substrates, and contributes to the proteolytic processing of growth factors, such as HGF and MST1/HGFL (PubMed: [15839837](http://www.uniprot.org/citations/15839837), PubMed: [21875933](http://www.uniprot.org/citations/21875933)). Plays a role in cell growth and maintenance of cell morphology (PubMed: [21875933](http://www.uniprot.org/citations/21875933), PubMed: [8346233](http://www.uniprot.org/citations/8346233)). Plays a role in the proteolytic processing of ACE2 (PubMed: [24227843](http://www.uniprot.org/citations/24227843)). Mediates the proteolytic cleavage of urinary UMOD that is required for UMOD polymerization (PubMed: [26673890](http://www.uniprot.org/citations/26673890)).

Cellular Location

Cell membrane; Single-pass type II membrane protein Apical cell membrane; Single-pass type II membrane protein

Tissue Location

Detected in liver and kidney.

HPN Antibody (Center) Blocking Peptide - Protocols

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

- [Blocking Peptides](#)

HPN Antibody (Center) Blocking Peptide - Images**HPN Antibody (Center) Blocking Peptide - Background**

HPN is a type II transmembrane serine protease. This protein has an extracellular region that consists of two domains, a catalytic serine protease domain and a non-catalytic scavenger receptor cysteine-rich domain. This protein may be involved in diverse cellular functions including blood coagulation, maintenance of cell morphology and the growth and progression of certain cancers, particularly prostate cancer.

HPN Antibody (Center) Blocking Peptide - References

Bethke, L., et al. J. Natl. Cancer Inst. 100(4):270-276(2008) Giglia-Mari, G., et al. Nat. Genet. 36(7):714-719(2004) Zhou, M., et al. Proc. Natl. Acad. Sci. U.S.A. 100(22):12666-12671(2003)