

**HPN Antibody (Center)**  
**Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AW5568**

**Specification**

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**HPN Antibody (Center) - Product Information**

Application	WB,E
Primary Accession	<a href="#">P05981</a>
Other Accession	<a href="#">Q5R5E8</a>
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Calculated MW	H=45;M=47,45;R=45 KDa
Isotype	Rabbit IgG
Antigen Source	HUMAN

**HPN Antibody (Center) - Additional Information**

**Gene ID** 3249

**Antigen Region**  
153-188

**Other Names**

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

**Dilution**

WB~~1:2000

**Target/Specificity**

This HPN antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between 153-188 amino acids from the Central region of human HPN.

**Storage**

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

HPN Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

**HPN Antibody (Center) - 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:<a href="http://www.uniprot.org/citations/15839837" target="\_blank">15839837</a>, PubMed:<a href="http://www.uniprot.org/citations/21875933" target="\_blank">21875933</a>). Plays a role in cell growth and maintenance of cell morphology (PubMed:<a href="http://www.uniprot.org/citations/21875933" target="\_blank">21875933</a>, PubMed:<a href="http://www.uniprot.org/citations/8346233" target="\_blank">8346233</a>). Plays a role in the proteolytic processing of ACE2 (PubMed:<a href="http://www.uniprot.org/citations/24227843" target="\_blank">24227843</a>). Mediates the proteolytic cleavage of urinary UMOD that is required for UMOD polymerization (PubMed:<a href="http://www.uniprot.org/citations/26673890" target="\_blank">26673890</a>).

### Cellular Location

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

### Tissue Location

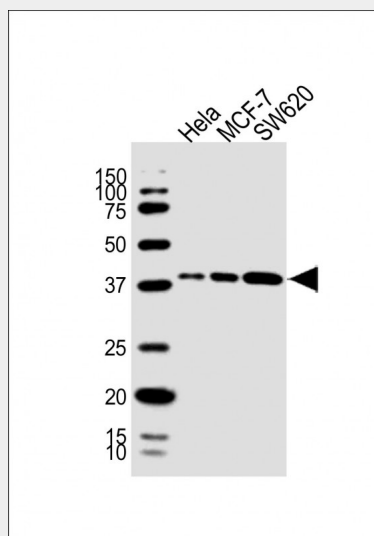
Detected in liver and kidney.

### HPN Antibody (Center) - Protocols

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

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

### HPN Antibody (Center) - Images



All lanes : Anti-HPN Antibody (Center) at 1:2000 dilution Lane 1: HeLa whole cell lysate Lane 2: MCF-7 whole cell lysate Lane 3: SW620 whole cell lysate Lysates/proteins at 20 µg per lane.

Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 45 kDa Blocking/Dilution buffer: 5% NFDM/TBST.

### **HPN Antibody (Center) - Background**

Plays an essential role in cell growth and maintenance of cell morphology. May mediate the activating cleavage of HGF and MST1/HGFL. Plays a role in the proteolytic processing of ACE2.

### **HPN Antibody (Center) - References**

- Leytus S.P., et al. *Biochemistry* 27:1067-1074(1988).  
Ota T., et al. *Nat. Genet.* 36:40-45(2004).  
Tsuji A., et al. *J. Biol. Chem.* 266:16948-16953(1991).  
Torres-Rosado A., et al. *Proc. Natl. Acad. Sci. U.S.A.* 90:7181-7185(1993).  
Chen R., et al. *J. Proteome Res.* 8:651-661(2009).