

**HPN Antibody (Center)**  
**Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP21383c**

**Specification**

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

Application	WB,E
Primary Accession	<a href="#">P05981</a>
Reactivity	Human
Host	Rabbit
Clonality	polyclonal
Isotype	Rabbit IgG
Calculated MW	45011

**HPN Antibody (Center) - 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

**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.

**Dilution**

WB~~1:2000

**Format**

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

**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:[15839837](#), PubMed:[21875933](#)). Plays a role in cell growth and maintenance of cell morphology (PubMed:[21875933](#), PubMed:[8346233](#)). Plays a role in the proteolytic processing of ACE2 (PubMed:[24227843](#)). Mediates the proteolytic cleavage of urinary UMOD that is required for UMOD polymerization (PubMed:[26673890](#)).

#### Cellular Location

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

#### Tissue Location

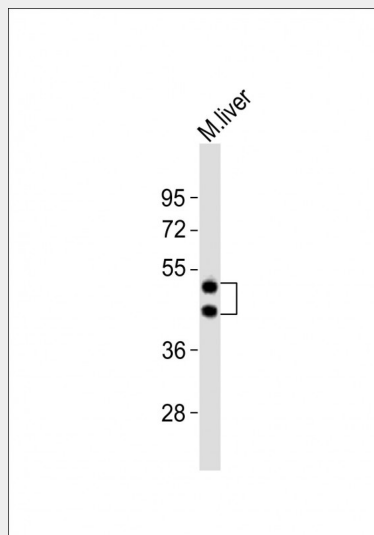
Detected in liver and kidney.

### HPN Antibody (Center) - Protocols

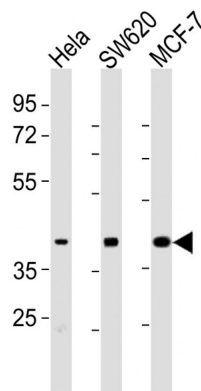
Provided below are standard protocols that you may find useful for product applications.

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

### HPN Antibody (Center) - Images



Anti-HPN Antibody (Center) at 1:2000 dilution + mouse liver lysates 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.



All lanes : Anti-HPN Antibody (Center) at 1:2000 dilution Lane 1: HeLa whole cell lysates Lane 2: SW620 whole cell lysates Lane 3: MCF-7 whole cell lysates 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).