

Hepsin/TMPRSS1 Rabbit pAb

Catalog # AP98414

Product Information

Application	WB, IHC-P, IHC-F, IF
Primary Accession	P05981
Other Accession	P05981
Reactivity	Human
Predicted	Rat, Pig, Mouse, Rabbit, Sheep
Host	Rabbit
Clonality	Polyclonal
Calculated MW	45011
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human Hepsin
Epitope Specificity	311-417/417
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Belongs to the peptidase S1 family. Contains 1 peptidase S1 domain. Contains 1 SRCR domain.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	This gene encodes a type II transmembrane serine protease. The encoded 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. Alternative splicing results in multiple transcript variants.

Additional Information

Gene ID	3249
Other Names	TMPRSS1; HEPS_HUMAN; HPN; Transmembrane protease serine 1; 3.4.21.106; hepsin; transmembrane protease, serine 1
Dilution	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

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.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.