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TMPRSS11D Rabbit pAb

Catalog # AP97990

Product Information

Application	IHC-P, IHC-F, IF
Primary Accession	O60235
Other Accession	O60235
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Calculated MW	46263
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human TMPRSS11D
Epitope Specificity	21-120/418
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 SEA 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 trypsin-like serine protease released from the submucosal serous glands onto mucous membrane. It is a type II integral membrane protein and has 29-38% identity in the sequence of the catalytic region with human hepsin, enteropeptidase, acrosin, and mast cell tryptase. The noncatalytic region has little similarity to other known proteins. This protein may play some biological role in the host defense system on the mucous membrane independently of or in cooperation with other substances in airway mucous or bronchial secretions. [provided by RefSeq, Jul 2008]

Additional Information

Gene ID	9407
Other Names	ASP; HAT; TM11D_HUMAN; TMPRSS11D; Airway trypsin-like protease; 3.4.21.-; transmembrane serine protease 11D; transmembrane protease, serine 11D; airway trypsin like protease; adrenal secretory serine protease
Dilution	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	TMPRSS11D
Synonyms	HAT
Function	May play some biological role in the host defense system on the mucous membrane independently of or in cooperation with other substances in airway mucous or bronchial secretions. Plays a role in the proteolytic processing of ACE2. Proteolytically cleaves and activates the human coronavirus 229E (HCoV-229E) spike glycoprotein which facilitate virus-cell membrane fusions; spike proteins are synthesized and maintained in precursor intermediate folding states and proteolysis permits the refolding and energy release required to create stable virus-cell linkages and membrane coalescence. Preferentially cleaves the C-terminal side of arginine residues at the P1 position of certain peptides, cleaving Boc-Phe-Ser-Arg-4-methylcoumaryl-7-amide most efficiently and having an optimum pH of 8.6 with this substrate.
Cellular Location	Cell membrane; Single-pass type II membrane protein. Note=Activated by cleavage and secreted
Tissue Location	Located in the cells of the submucosal serous glands of the bronchi and trachea

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