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TMPRSS11D Antibody (N-Term)

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP21729a

Product Information

Application	WB, E
Primary Accession	O60235
Reactivity	Human, Rat
Predicted	Canine, Rabbit
Host	Rabbit
Clonality	polyclonal
Isotype	Rabbit IgG
Clone Names	RB53576
Calculated MW	46263

Additional Information

Gene ID	9407
Other Names	Transmembrane protease serine 11D, 3421-, Airway trypsin-like protease, Transmembrane protease serine 11D non-catalytic chain, Transmembrane protease serine 11D catalytic chain, TMPRSS11D, HAT
Target/Specificity	This TMPRSS11D antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between 84-119 amino acids from human TMPRSS11D.
Dilution	WB~~1:2000 E~~Use at an assay dependent concentration.
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	TMPRSS11D Antibody (N-Term) is for research use only and not for use in diagnostic or therapeutic procedures.

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

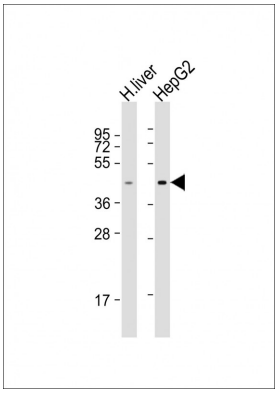
Background

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.

References

Yamaoka K.,et al.J. Biol. Chem. 273:11895-11901(1998).
Yasuoka S.,et al.Am. J. Respir. Cell Mol. Biol. 16:300-308(1997).
Bertram S.,et al.J. Virol. 87:6150-6160(2013).
Heurich A.,et al.J. Virol. 88:1293-1307(2014).

Images



All lanes : Anti-TMPRSS11D Antibody (N-Term) at 1:2000 dilution Lane 1: human liver lysate Lane 2: HepG2 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 : 46 kDa Blocking/Dilution buffer: 5% NFDM/TBST.

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