

TMPRSS11D / HAT Antibody (internal region)
Peptide-affinity purified goat antibody
Catalog # AF2980a**Specification**

TMPRSS11D / HAT Antibody (internal region) - Product Information

Application	E
Primary Accession	O60235
Other Accession	NP_004253.1 , 9407
Predicted	Human
Host	Goat
Clonality	Polyclonal
Concentration	0.5 mg/ml
Isotype	IgG
Calculated MW	46263

TMPRSS11D / HAT Antibody (internal region) - Additional Information**Gene ID** 9407**Other Names**

Transmembrane protease serine 11D, 3.4.21.-, Airway trypsin-like protease, Transmembrane protease serine 11D non-catalytic chain, Transmembrane protease serine 11D catalytic chain, TMPRSS11D, HAT

Format

0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

TMPRSS11D / HAT Antibody (internal region) is for research use only and not for use in diagnostic or therapeutic procedures.

TMPRSS11D / HAT Antibody (internal region) - 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

TMPRSS11D / HAT Antibody (internal region) - 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](#)

TMPRSS11D / HAT Antibody (internal region) - Images**TMPRSS11D / HAT Antibody (internal region) - References**

Proteolytic activation of influenza viruses by serine proteases TMPRSS2 and HAT from human airway epithelium. Böttcher E, Matrosovich T, Beyerle M, Klenk HD, Garten W, Matrosovich M. J Virol. 2006 Oct;80(19):9896-8. PMID: 16973594