10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

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

Dilution
E~~N/A

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 Cytomety
- 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