

Rabbit TMPRSS2 Polyclonal Antibody | anti-TMPRSS2 antibody

TMPRSS2 (CT) Antibody

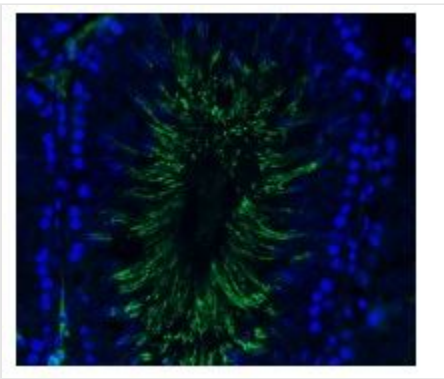
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA11037	Rabbit	Human, Mouse, Rat Predicted species reactivity based on immunogen sequence: Monkey (100%); Gorilla (100%); Cat (92%).	ELISA, Immunofluorescence, Western Blot

PRODUCT SYNONYMS

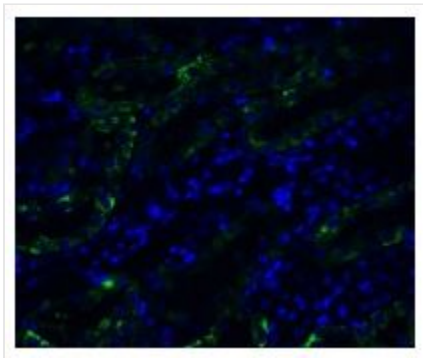
TMPRSS2; Polyclonal Antibody; TMPRSS2 (CT) Antibody; TMPRSS2 Antibody; Transmembrane protease serine 2; Serine protease 10; PRSS10; Transmembrane protease serine 2 non-catalytic chain; Transmembrane protease serine 2 catalytic chain; transmembrane serine protease 2; anti-TMPRSS2 antibody

PRODUCT SPECIFICATIONS

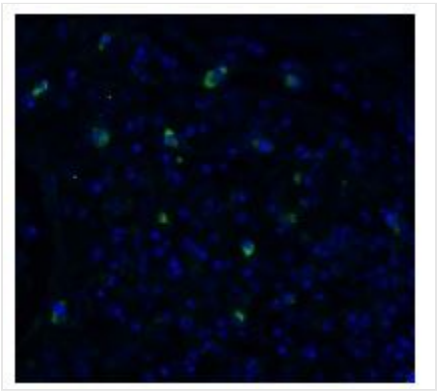
Host	Rabbit
Reactivity	Human, Mouse, Rat Predicted species reactivity based on immunogen sequence: Monkey (100%); Gorilla (100%); Cat (92%).
Clonality	Polyclonal
Isotype	IgG
Purity/Purification	TMPRSS2 Antibody is affinity chromatography purified via peptide column.
Form/Format	Liquid; TMPRSS2 Antibody is supplied in PBS containing 0.02% sodium azide.
Concentration	1mg/mL (varies by lot)
Applicable Applications for anti-TMPRSS2 antibody	ELISA, IF (Immunofluorescence), WB (Western Blot)
Application Notes	WB: 2ug/mL IF: 20ug/mL. Antibody validated: Western Blot in human, mouse and rat samples; Immunofluorescence in human, mouse and rat samples. All other applications and species not yet tested.
Immunogen	Anti-TMPRSS2 antibody was raised against a peptide corresponding to 12 amino acids near the carboxyl terminus of human TMPRSS2. The immunogen is located within the last 50 amino acids of TMPRSS2.
Conjugation	Unconjugated
Protein GI#	115502469
Isoform	Human TMPRSS2 has 2 isoforms, including isoform 1 (492aa, 54kD) and isoform 2 (529aa, 57.7kD). Mouse TMPRSS2 has 1 isoform (490aa, 54kD). Rat TMPRSS2 has one isoform (490aa, 53kD). 9569 can detect TMPRSS2 in human, mouse and rat.
NCBI Organism	Homo sapiens
Preparation and Storage	TMPRSS2 antibody can be stored at 4 degree C for three months and -20 degree C, stable for up to one year. As with all antibodies care should be taken to avoid repeated freeze thaw cycles. Antibodies should not be exposed to prolonged high temperatures.



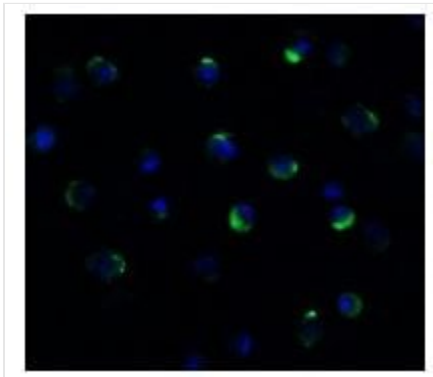
IF (Immunofluorescence)
Figure 7 Immunofluorescence Validation of TMPRSS2 in Rat TestisImmunofluorescent analysis of 4% paraformaldehyde-fixed rat Testis labeling TMPRSS2 with 9569 at 20ug/mL, followed by goat anti-rabbit IgG secondary antibody at 1/500 dilution (green) and DAPI staining (blue).



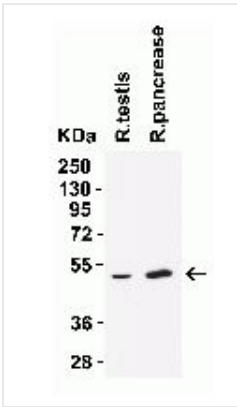
IF (Immunofluorescence)
Figure 6 Immunofluorescence Validation of TMPRSS2 in Mouse KidneyImmunofluorescent analysis of 4% paraformaldehyde-fixed mouse kidney labeling TMPRSS2 at 20ug/mL, followed by goat anti-rabbit IgG secondary antibody at 1/500 dilution (green) and DAPI staining (blue).



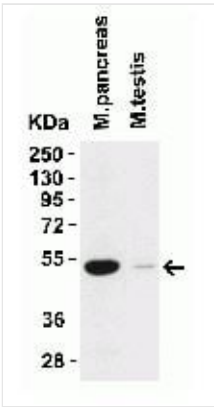
IF (Immunofluorescence)
Figure 5 Immunofluorescence Validation of TMPRSS2 in Human LungImmunofluorescent analysis of 4% paraformaldehyde-fixed human lung labeling TMPRSS2 with 9569 at 20ug/mL, followed by goat anti-rabbit IgG secondary antibody at 1/500 dilution (green) and DAPI staining (blue).



IF (Immunofluorescence)
Figure 4 Immunofluorescence Validation of TMPRSS2 in A549 CellsImmunofluorescent analysis of 4% paraformaldehyde-fixed A549 cells labeling TMPRSS2 at 20ug/mL, followed by goat anti-rabbit IgG secondary antibody at 1/500 dilution (green) and DAPI staining (blue).



WB (Western Blot)
Figure 3 Western Blot Validation in Rat TissuesLoading: 15 ug of lysates per lane.Antibodies: TMPRSS2, 2ug/mL, 1h incubation at RT in 5% NFDm/TBST.Secondary: Goat anti-rabbit IgG HRP conjugate at 1:10,000 dilution.



WB (Western Blot)
Figure 2 Western Blot Validation in Mouse Tissues Loading: 15 ug of lysates per lane. Antibodies: TMPRSS2 9569, 2ug/mL, 1h incubation at RT in 5% NFDm/TBST. Secondary: Goat anti-rabbit IgG HRP conjugate at 1:10,000 dilution.

ADDITIONAL INFORMATION

Related Product Information for anti-TMPRSS2 antibody	TMPSRS2 Antibody: TMPSRS2 is a plasma membrane-anchored serine protease that participates in proteolytic cascades of relevance for the normal physiologic function of the prostate. Androgen-induced TMPSRS2 activates several substrates that include pro-hepatocyte growth factor/HGF, the protease activated receptor-2/F2RL1 or matriptase/ST14 leading to extracellular matrix disruption and metastasis of prostate cancer cells. It facilitates human coronaviruses SARS-CoV and SARS-CoV-2 infections via two independent mechanisms, proteolytic cleavage of ACE2 receptor which promotes viral uptake, and cleavage of coronavirus spike glycoproteins which activates the glycoprotein for host cell entry. It proteolytically cleaves and activates the spike glycoproteins of human coronavirus 229E (HCoV-229E) and human coronavirus EMC (HCoV-EMC) and the fusion glycoproteins F0 of Sendai virus (SeV), human metapneumovirus (HMPV), human parainfluenza 1, 2, 3, 4a and 4b viruses (HPIV). TMPSRS2 is essential for spread and pathogenesis of influenza A virus (strains H1N1, H3N2 and H7N9), and it is involved in proteolytic cleavage and activation of hemagglutinin (HA) protein which is essential for viral infectivity.
Product Categories/Family for anti-TMPRSS2 antibody	Primary Antibody; Infectious Disease; COVID-19
References	Lucas et al. Cancer Discov. 2014; 4(11):1310-25. Ko et al. Cancer Res. 2015; 75(14):2949-60. Zang et al. Sci. Immunol. 2020; 5(47):eabc3582.

NCBI AND UNIPROT INFORMATION

NCBI GI #	227499990
NCBI GeneID	7113
NCBI Accession #	NP_001128571.1
NCBI GenBank Nucleotide #	NM_001135099.1
UniProt Accession #	O15393; Q6GTK7; Q9BXX1; A8K6Z8; B2R8E5; B7Z459; D3DSJ2; F8WES1
Molecular Weight	57,690 Da
NCBI Official Full Name	transmembrane protease serine 2 isoform 1
NCBI Official Synonym Full Names	transmembrane serine protease 2
NCBI Official Symbol	TMPSRS2
NCBI Official Synonym Symbols	PP9284; PRSS10
NCBI Protein Information	transmembrane protease serine 2
UniProt Protein Name	Transmembrane protease serine 2
UniProt Gene Name	TMPSRS2
UniProt Synonym Gene Names	PRSS10

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/tmprrs2-antibody-immunofluorescence-western-blot-elisa/11037>