

Rabbit anti-Human TMPRSS2 Polyclonal Antibody | anti-TMPRSS2 antibody

TMPRSS2 Antibody (N-term)

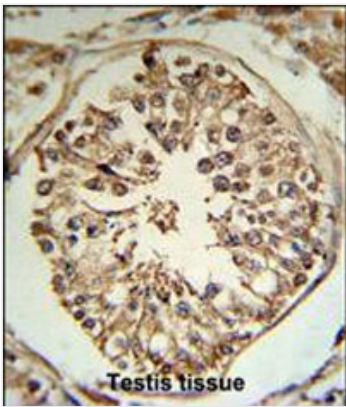
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA28791	Rabbit	Human	Western Blot, Immunohistochemistry, Flow Cytometry, Functional Assay, ELISA

PRODUCT SYNONYMS

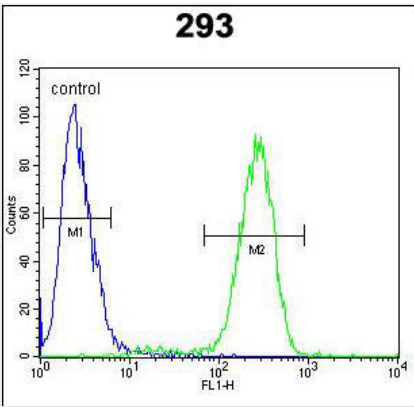
TMPRSS2; Polyclonal Antibody; TMPRSS2 Antibody (N-term); Transmembrane protease serine 2; 3421-; Serine protease 10; Transmembrane protease serine 2 non-catalytic chain; Transmembrane protease serine 2 catalytic chain; PRSS10; anti-TMPRSS2 antibody

PRODUCT SPECIFICATIONS

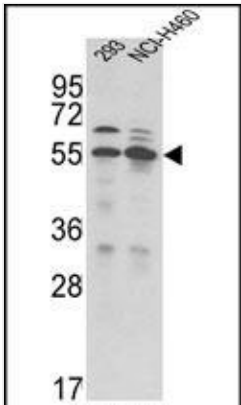
Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	Rabbit Ig
Specificity	This TMPRSS2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 1-30 amino acids from the N-terminal region of human TMPRSS2.
Purity/Purification	Purified Rabbit Polyclonal Antibody (Pab)
Form/Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.
Sequence Length	529
Applicable Applications for anti-TMPRSS2 antibody	WB (Western Blot), IHC (Immunohistochemistry), FCM/FACS (Flow Cytometry), ELISA
Application Notes	WB~~1:1000 IHC-P~~1:50~100 FC~~1:10~50
Function	Plasma membrane-anchored serine protease that participates in proteolytic cascades of relevance for the normal physiologic function of the prostate (PubMed: 25122198). Androgen-induced TMPRSS2 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 (PubMed: 15537383 , PubMed: 26018085 , PubMed: 25122198). In addition, activates trigeminal neurons and contribute to both spontaneous pain and mechanical allodynia (By similarity).
Cellular Location	Cell membrane; Single-pass type II membrane protein
Tissue Location	Expressed in several tissues that comprise large populations of epithelial cells with the highest level of transcripts measured in the prostate gland. Expressed in type II pneumocytes in the lung (at protein level). Expressed strongly in small intestine. Also expressed in colon, stomach and salivary gland. Coexpressed with ACE2 within lung type II pneumocytes, ileal absorptive enterocytes, intestinal epithelial cells, cornea, gallbladder and nasal goblet secretory cells (Ref.21). {ECO: 0000269 PubMed: 11169526, ECO: 0000269 PubMed: 20382709, ECO: 0000269 PubMed: 21325420, ECO: 0000269 PubMed: 32404436, ECO: 0000269 Ref.21}
Antigen Region	1-30
Preparation and 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-thawcycles.



IHC (Immunohistochemistry)
TMPRSS2 Antibody (N-term) (RB18784) IHC analysis in formalin fixed and paraffin embedded human testis tissue followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of the TMPRSS2 Antibody (N-term) for immunohistochemistry. Clinical relevance has not been evaluated.



FCM (Flow Cytometry)
TMPRSS2 Antibody (N-term) (AAA28791) flow cytometric analysis of 293 cells (right histogram) compared to a negative control cell (left histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.



WB (Western Blot)
Western blot analysis of TMPRSS2 Antibody (N-term) (AAA28791) in 293, NCI-H460 cell line lysates (35ug/lane). TMPRSS2 (arrow) was detected using the purified Pab.

ADDITIONAL INFORMATION

Related Product Information for anti-TMPRSS2 antibody	TMPRSS2 is a protein that belongs to the serine protease family. The protein contains a type II transmembrane domain, a receptor class A domain, a scavenger receptor cysteine-rich domain and a protease domain. Serine proteases are known to be involved in many physiological and pathological processes. Its gene was demonstrated to be up-regulated by androgenic hormones in prostate cancer cells and down-regulated in androgen-independent prostate cancer tissue. The protease domain of this protein is thought to be cleaved and secreted into cell media after autocleavage.
Product Categories/Family for anti-TMPRSS2 antibody	Cancer; Cell biology; Neuroscience
References	Gopalan,A., Cancer Res. 69 (4), 1400-1406 (2009) Hofer,M.D., Cancer Res. 69 (2), 640-646 (2009)

NCBI AND UNIPROT INFORMATION

NCBI GI #	227499990
NCBI GeneID	7113
NCBI Accession #	NP_001128571.1; NP_005647.3
NCBI GenBank Nucleotide #	NM_001135099.1

UniProt Accession #	O15393; Q6GTK7; Q9BXX1; A8K6Z8; B2R8E5; B7Z459; D3DSJ2; F8WES1
NCBI Official Full Name	transmembrane protease serine 2 isoform 1
NCBI Official Synonym Full Names	transmembrane protease, serine 2
NCBI Official Symbol	TMPRSS2
NCBI Official Synonym Symbols	PP9284; PRSS10
NCBI Protein Information	transmembrane protease serine 2
UniProt Protein Name	Transmembrane protease serine 2
UniProt Gene Name	TMPRSS2
UniProt Synonym Gene Names	PRSS10
UniProt Entry Name	TMPS2_HUMAN

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.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com

Online datasheet: <https://stage.aaabiotech.com/polyclonal/tmprss2-antibody-western-blot-immunohistochemistry-flow-cytometry-elisa/28791>