

Rabbit TMPRSS2 Polyclonal Antibody | anti-TMPRSS2 antibody

TMPRSS2 Antibody (Center)

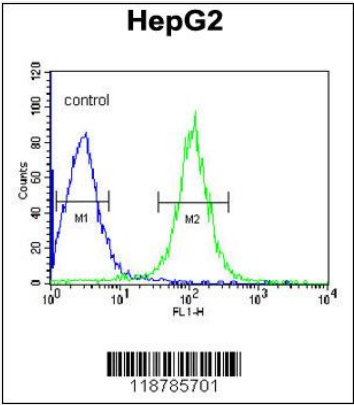
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA28646	Rabbit	Reactivity: Human, Mouse Predicted: Mouse	Western Blot, ELISA, Flow Cytometry, Functional Assay

PRODUCT SYNONYMS

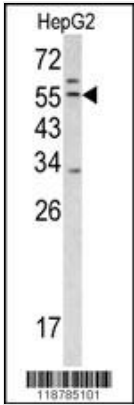
TMPRSS2; Polyclonal Antibody; TMPRSS2 Antibody (Center); Transmembrane protease serine 2; 3421-; Serine protease 10; Transmembrane protease serine 2 non-catalytic chain; Transmembrane protease serine 2 catalytic chain; PRSS10; anti-TMPRSS2 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Reactivity: Human, Mouse Predicted: Mouse
Clonality	Polyclonal
Isotype	Rabbit Ig
Specificity	This TMPRSS2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 314-343 amino acids from the Central 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 Positions	314-343
Sequence Length	529
Applicable Applications for anti-TMPRSS2 antibody	WB (Western Blot), ELISA, FCM/FACS (Flow Cytometry)
Application Notes	WB~~1:1000 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.
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 2 weeks. For long term storage store at -20 degree C in small aliquots to prevent freeze-thaw cycles.



FCM (Flow Cytometry)
TMPRSS2 Antibody (Center)(AAA28646) flow cytometric analysis of HepG2 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 (Center)(AAA28646) in HepG2 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
Molecular Weight	53859
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

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/tmprss2-antibody-western-blot-flow-cytometry-elisa/28646>