

TMPRSS13 Antibody (C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP14675b

Product Information

Application	WB, IHC-P, E
Primary Accession	Q9BYE2
Reactivity	Human
Predicted	Mouse, Rat, Bovine, Canine, Rabbit
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB34493
Calculated MW	63167
Antigen Region	431-460

Additional Information

Gene ID	84000
Other Names	Transmembrane protease serine 13, 3421-, Membrane-type mosaic serine protease, Mosaic serine protease, TMPRSS13, MSP, TMPRSS11
Target/Specificity	This TMPRSS13 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 431-460 amino acids from the C-terminal region of human TMPRSS13.
Dilution	WB~~1:1000 IHC-P~~1:100~500 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.05% (V/V) Proclin 300. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.
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-thaw cycles.
Precautions	TMPRSS13 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	TMPRSS13
Synonyms	MSP, TMPRSS11
Function	Serine protease (PubMed: 20977675 , PubMed: 28710277 ,

PubMed:[34562451](#)). Cleaves the proform of PRSS8/prostasin to form the active protein (PubMed:[34562451](#)). Cleaves the proform of HGF to form the active protein which promotes MAPK signaling (PubMed:[20977675](#)). Promotes the formation of the stratum corneum and subsequently the epidermal barrier in embryos (By similarity).

Cellular Location

Cell membrane; Single-pass type II membrane protein. Secreted. Cytoplasm Note=The non-phosphorylated, inactive full length protein localizes intracellularly (PubMed:28710277). N-glycosylation and phosphorylation is required for trafficking to the cell surface (PubMed:28710277, PubMed:34562451, PubMed:35796294). Interaction with SPINT1/HAI-1 and SPINT2/HAI-2 facilitate its translocation to the cell surface (PubMed:34562451, PubMed:35796294). Proteolytic cleavage is required for secretion (PubMed:35796294).

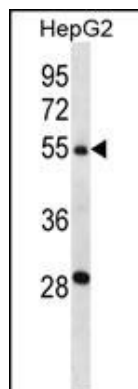
Tissue Location

Expressed in placenta. [Isoform 3]: Expressed in lung, placenta, pancreas, and prostate (PubMed:11267681). Weakly expressed in testis and peripheral blood lymphocytes (PubMed:11267681)

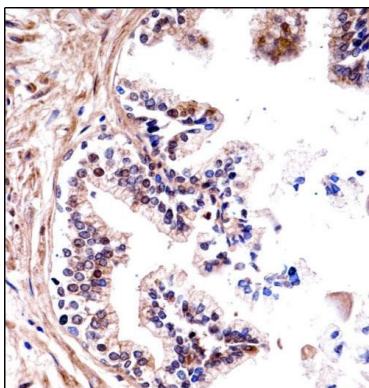
Background

TMPRSS13 is a cell membrane serine protease. It is a member of a larger family of membrane attached serine proteases, a poorly defined group that includes TMPRSS11A, B, C, D, E, F, Hepsin, Corin, Matriptase 1, 2 and 3. TMPRSS13 has a domain structure of an aminoterminal cytoplasmic domain, which is much longer than the other TMPRSS family members, followed by a transmembrane domain, an SRCR domain (Scavenger receptor cysteine rich), an LDL receptor like domain, another SRCR domain, followed by the trypsin like serine protease domain. The cytoplasmic domain contains a number of tandem repeat elements, the function of which is not clear, but which may play a regulatory role.

Images



TMPRSS13 Antibody (C-term) (Cat. #AP14675b) western blot analysis in HepG2 cell line lysates (35ug/lane). This demonstrates the TMPRSS13 antibody detected the TMPRSS13 protein (arrow).



TMPRSS13 Antibody (C-term) (AP14675b) immunohistochemistry analysis in formalin fixed and paraffin embedded human prostate tissue followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of TMPRSS13 Antibody (C-term) for immunohistochemistry. Clinical relevance has not been evaluated.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.