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TMPRSS13 Antibody (C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP14675b

Specification

TMPRSS13 Antibody (C-term) - Product Information

Application	**WB, IHC-P,E**
Primary Accession	Q9BYE2
Reactivity	**Human**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Calculated MW	**63167**
Antigen Region	**431-460**

TMPRSS13 Antibody (C-term) - 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~~1:10~50

Format
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

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.

TMPRSS13 Antibody (C-term) - 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).

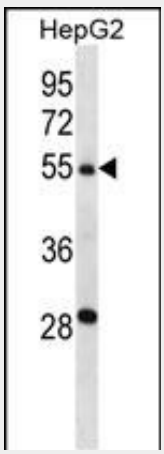
Tissue Location
Expressed in placenta. [Isoform 3]: Expressed in lung, placenta, pancreas, and prostate (PubMed:11267681). Weakly expressed in testis and peripheral blood lymphocytes (PubMed:11267681)

TMPRSS13 Antibody (C-term) - 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

TMPRSS13 Antibody (C-term) - 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).

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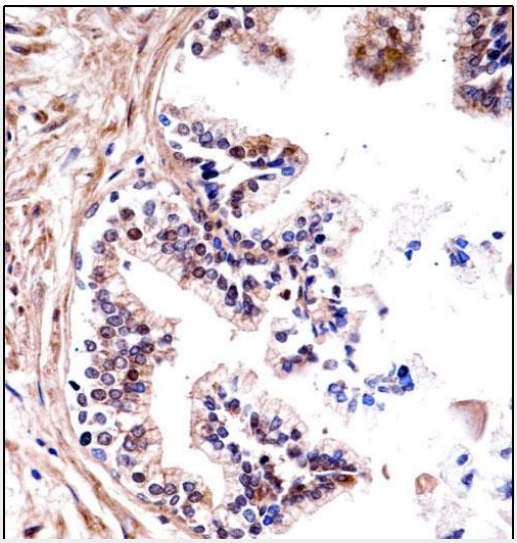

TMPRSS13 Antibody (C-term) (AP14675b)immunohistochemistry analysis in formalin fixed and paraffin embedded human prostate tissue followed by peroxidase conjugation of the secondary antibody and DAB staining.This data demonstrates the use of TMPRSS13 Antibody (C-term) for immunohistochemistry. Clinical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

TMPRSS13 Antibody (C-term) - 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.