

TMPRSS2 Antibody (Center)
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP7377c

Specification

TMPRSS2 Antibody (Center) - Product Information

Application	WB, FC,E
Primary Accession	O15393
Other Accession	Q9J1Q8
Reactivity	Human, Mouse
Predicted	Mouse
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit Ig
Calculated MW	53859
Antigen Region	314-343

TMPRSS2 Antibody (Center) - Additional Information

Gene ID 7113

Other Names

Transmembrane protease serine 2, 3421-, Serine protease 10, Transmembrane protease serine 2 non-catalytic chain, Transmembrane protease serine 2 catalytic chain, TMPRSS2, PRSS10

Target/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.

Dilution

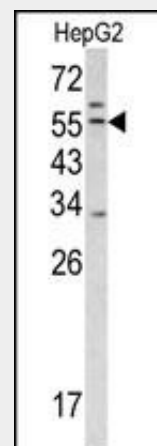
WB~~1:1000
FC~~1:10~50

Format

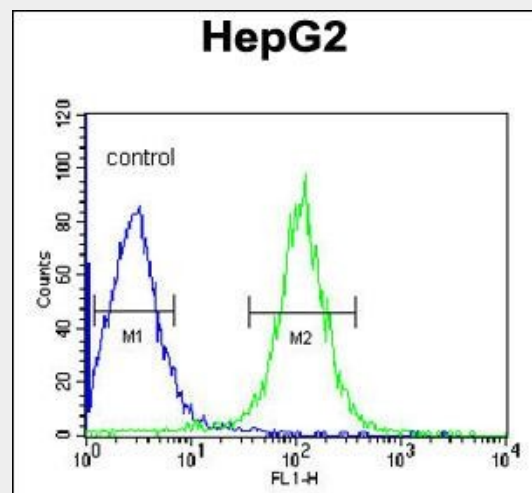
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.

Storage

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C



Western blot analysis of TMPRSS2 antibody (Center) (Cat. #AP7377c) in HepG2 cell line lysates (35ug/lane). TMPRSS2 (arrow) was detected using the purified Pab.



TMPRSS2 Antibody (Center) (Cat. #AP7377c) 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.

TMPRSS2 Antibody (Center) - Background

TMPRSS2 is a protein that belongs to the

in small aliquots to prevent freeze-thaw cycles.

Precautions

TMPRSS2 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

TMPRSS2 Antibody (Center) - Protein Information

Name TMPRSS2 ([HGNC:11876](#))

Synonyms PRSS10

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,

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.

TMPRSS2 Antibody (Center) - References

Gopalan,A., Cancer Res. 69 (4), 1400-1406 (2009)
Hofer,M.D., Cancer Res. 69 (2), 640-646 (2009)

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}

TMPRSS2 Antibody (Center) - Protocols

Provided below are standard protocols that you
may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)