

Transmembrane Protease Serine 2 Rabbit mAb

Catalog # AP79050

Product Information

Application WB, IHC-P, IF, FC, ICC

Primary Accession 015393

Reactivity Rat, Human, Mouse

Host Rabbit

Clonality Monoclonal Antibody

Isotype IgG

Conjugate Unconjugated

Immunogen A synthesized peptide derived from human TMPRSS2

Purification Affinity Purified

Calculated MW 53859

Additional Information

Gene ID 7113

Other Names TMPRSS2

Dilution WB~~1/500-1/1000 IHC-P~~N/A IF~~1:50~200 FC~~1:10~50 ICC~~N/A

Format Liquid in 10mM PBS, pH 7.4, 150mM sodium chloride, 0.05% BSA, 0.02%

sodium azide and 50% glycerol.

Storage Store at 4°C short term. Aliquot and store at -20°C long term. Avoid

freeze/thaw cycles.

Protein Information

Name TMPRSS2 (HGNC:11876)

Synonyms PRSS10

Function Plasma membrane-anchored serine protease that cleaves at arginine

residues (PubMed:<u>32703818</u>, PubMed:<u>35676539</u>, PubMed:<u>37990007</u>, PubMed:<u>38964328</u>). Participates in proteolytic cascades of relevance for the

normal physiologic function of the prostate (PubMed: 25122198).

Androgen-induced TMPRSS2 activates several substrates that include prohepatocyte 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:25122198,

PubMed: 26018085). In addition, activates trigeminal neurons and contribute

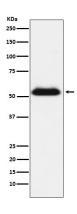
to both spontaneous pain and mechanical allodynia (By similarity).

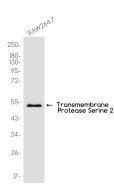
Cellular Location Cell membrane; Single-pass type II membrane protein

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}

Images





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