

Transmembrane Protease Serine 2 Rabbit mAb
Catalog # AP79050**Specification****Transmembrane Protease Serine 2 Rabbit mAb - Product Information**

Application	WB, IHC
Primary Accession	O15393
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Monoclonal Antibody
Calculated MW	53859

Transmembrane Protease Serine 2 Rabbit mAb - Additional Information**Gene ID** 7113**Other Names**
TMPRSS2**Dilution**
WB~~1/500-1/1000
IHC~~1/50-1/100**Format**
Liquid**Transmembrane Protease Serine 2 Rabbit mAb - Protein Information****Name** TMPRSS2 ([HGNC:11876](#))**Synonyms** PRSS10**Function**

Plasma membrane-anchored serine protease that cleaves at arginine residues (PubMed: [32703818](http://www.uniprot.org/citations/32703818), PubMed: [35676539](http://www.uniprot.org/citations/35676539), PubMed: [37990007](http://www.uniprot.org/citations/37990007), PubMed: [38964328](http://www.uniprot.org/citations/38964328)). Participates in proteolytic cascades of relevance for the normal physiologic function of the prostate (PubMed: [25122198](http://www.uniprot.org/citations/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](http://www.uniprot.org/citations/15537383), PubMed: [25122198](http://www.uniprot.org/citations/25122198), PubMed: [26018085](http://www.uniprot.org/citations/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}

Transmembrane Protease Serine 2 Rabbit mAb - 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](#)

Transmembrane Protease Serine 2 Rabbit mAb - Images



