

**Anti-TMPRSS2 Reference Antibody (Regeneron patent anti-TMPRSS2 )  
Recombinant Antibody  
Catalog # APR11051**

**Specification**

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**Anti-TMPRSS2 Reference Antibody (Regeneron patent anti-TMPRSS2 ) - Product Information**

Application	FC, E, FTA
Primary Accession	<a href="#">O15393</a>
Reactivity	Cynomolgus, Human
Clonality	Monoclonal
Isotype	IgG1
Calculated MW	150 KDa

**Anti-TMPRSS2 Reference Antibody (Regeneron patent anti-TMPRSS2 ) - Additional Information**

**Target/Specificity**  
TMPRSS2

**Endotoxin**  
< 0.001EU/ µg,determined by LAL method.

**Conjugation**  
Unconjugated

**Expression system**  
CHO Cell

**Format**  
Purified monoclonal antibody supplied in PBS, pH6.0, without preservative.This antibody is purified through a protein A column.

**Anti-TMPRSS2 Reference Antibody (Regeneron patent anti-TMPRSS2 ) - Protein Information**

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

**Synonyms** PRSS10

**Function**  
Plasma membrane-anchored serine protease that cleaves at arginine residues (PubMed:<a href="http://www.uniprot.org/citations/32703818" target="\_blank">32703818</a>, PubMed:<a href="http://www.uniprot.org/citations/35676539" target="\_blank">35676539</a>, PubMed:<a href="http://www.uniprot.org/citations/37990007" target="\_blank">37990007</a>, PubMed:<a href="http://www.uniprot.org/citations/38964328" target="\_blank">38964328</a>). Participates in proteolytic cascades of relevance for the normal physiologic function of the prostate (PubMed:<a href="http://www.uniprot.org/citations/25122198" target="\_blank">25122198</a>).

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:<a href="http://www.uniprot.org/citations/15537383" target="\_blank">15537383</a>, PubMed:<a href="http://www.uniprot.org/citations/25122198" target="\_blank">25122198</a>, PubMed:<a href="http://www.uniprot.org/citations/26018085" target="\_blank">26018085</a>). 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

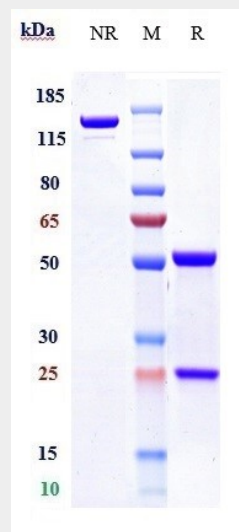
Expressed in several tissues that comprise large populations of epithelial cells with the highest level of transcripts measured in the prostate gland. Expressed in type II pneumocytes in the lung (at protein level). Expressed strongly in small intestine. Also expressed in colon, stomach and salivary 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}

### Anti-TMPRSS2 Reference Antibody (Regeneron patent anti-TMPRSS2 ) - Protocols

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

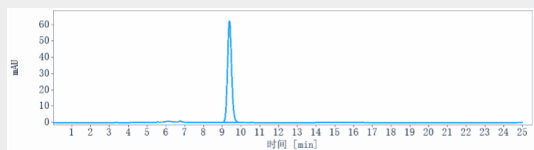
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

### Anti-TMPRSS2 Reference Antibody (Regeneron patent anti-TMPRSS2 ) - Images



Anti-TMPRSS2 Reference Antibody (Regeneron patent anti-TMPRSS2 ) on SDS-PAGE under

reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 90%



The purity of Anti-TMPRSS2 Reference Antibody (Regeneron patent anti-TMPRSS2 ) is more than 95% ,determined by SEC-HPLC.