

**TMPRSS4 Polyclonal Antibody**  
**Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP58410****Specification****TMPRSS4 Polyclonal Antibody - Product Information**

Application	WB, IHC-P, IHC-F, IF, E
Primary Accession	<a href="#">Q9NRS4</a>
Reactivity	Rat, Dog
Host	Rabbit
Clonality	Polyclonal
Calculated MW	48 KDa
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human TMPRSS4
Epitope Specificity	84-130/437
Isotype	IgG
<b>Purity</b>	
affinity purified by Protein A	
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Membrane; Single-pass type II membrane protein (Potential).
SIMILARITY	Belongs to the peptidase S1 family. Contains 1 LDL-receptor class A domain. Contains 1 peptidase S1 domain. Contains 1 SRCR domain.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

**Background Descriptions**

TMPRSS4 is a member of the peptidase S1 family and contains 1 LDL receptor class A domain, 1 peptidase S1 domain and 1 SRCR domain. It is a probable membrane protease capable of activating ENaC and may process sodium channels in endothelial cells. TMPRSS4 is overexpressed in thyroid neoplasms, and splice variants in TMPRSS4 are thought to be linked with different cancers. Three named isoforms are produced by alternative splicing.

**TMPRSS4 Polyclonal Antibody - Additional Information****Gene ID** 56649**Other Names**

Transmembrane protease serine 4, 3.4.21.-, Channel-activating protease 2, CAPH2, Membrane-type serine protease 2, MT-SP2, Transmembrane protease serine 4 catalytic chain, TMPRSS4 ([http://www.genenames.org/cgi-bin/gene\\_symbol\\_report?hgnc\\_id=11878](http://www.genenames.org/cgi-bin/gene_symbol_report?hgnc_id=11878)) target="\_blank">HGNC:11878</a>)

**Target/Specificity**

High levels in pancreatic, gastric, colorectal and ampullary cancer. Very weak expression in normal gastrointestinal and urogenital tract.

**Dilution**

WB~1:1000  
IHC-P~N/A  
IHC-F~N/A  
IF~1:50~200  
E~N/A

**Format**

0.01M TBS(pH7.4), 0.09% (W/V) sodium azide and 50% Glyce

**Storage**

Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

**TMPRSS4 Polyclonal Antibody - Protein Information**

**Name** TMPRSS4 ([HGNC:11878](#))

**Function**

Plasma membrane-anchored serine protease that directly induces processing of pro-uPA/PLAU into the active form through proteolytic activity (PubMed:[24434139](http://www.uniprot.org/citations/24434139)). Seems to be capable of activating ENaC (By similarity).

**Cellular Location**

Cell membrane; Single-pass type II membrane protein

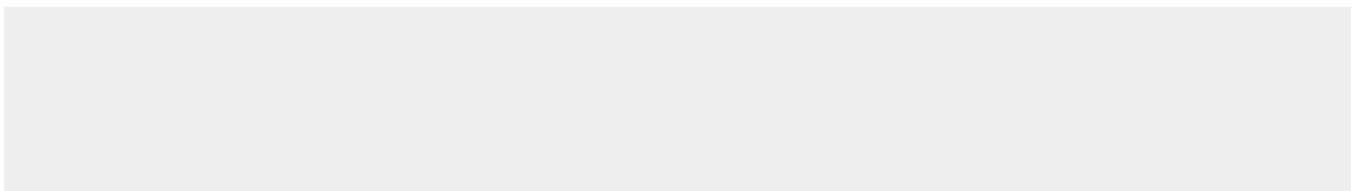
**Tissue Location**

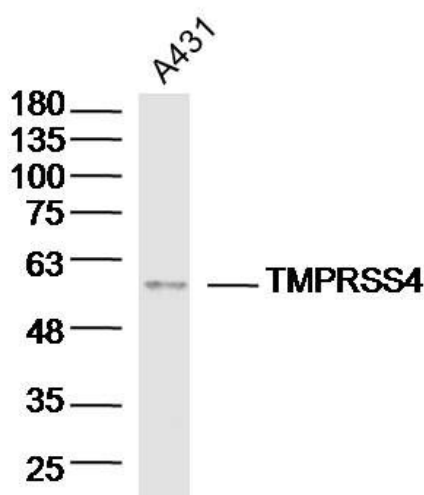
High levels in pancreatic, gastric, colorectal and ampullary cancer. Very weak expression in normal gastrointestinal and urogenital tract (PubMed:10825129). Coexpressed with ACE2 within mature enterocytes (PubMed:32404436).

**TMPRSS4 Polyclonal Antibody - Protocols**

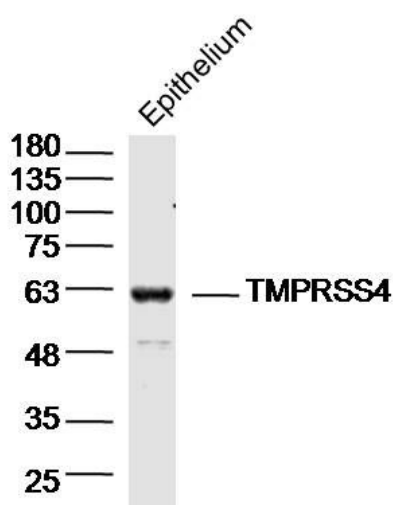
Provided below are standard protocols that you may find useful for product applications.

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

**TMPRSS4 Polyclonal Antibody - Images**



Sample: A431 (Human) Cell Lysate at 40 ug  
Primary: Anti-TMPRSS4(bs-6286R) at 1/300 dilution  
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution  
Predicted band size: 48 kD  
Observed band size: 55 kD



Sample: Epithelium (Mouse) Lysate at 40 ug  
Primary: Anti-TMPRSS4(bs-6286R) at 1/300 dilution  
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution  
Predicted band size: 48 kD  
Observed band size: 60 kD