10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

TMPRSS4 Polyclonal Antibody

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP58410

Product Information

Application	WB, IHC-P, IHC-F, IF, E
Primary Accession	Q9NRS4
Reactivity	Rat, Dog
Host	Rabbit
Clonality	Polyclonal
Calculated MW	48246
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human TMPRSS4
Epitope Specificity	84-130/437
Isotype	IgG
Purity	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.

Additional Information

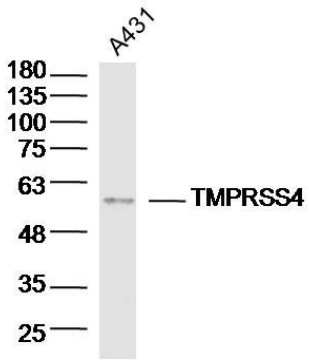
Gene ID	56649
Other Names	Transmembrane protease serine 4, 3.4.21.-, Channel-activating protease 2, CAPH2, Membrane-type serine protease 2, MT-SP2, Transmembrane protease serine 4 catalytic chain, TMPRSS4 (HGNC:11878)
Target/Specificity	High levels in pancreatic, gastric, colorectal and ampullary cancer. Very weak expression in normal gastrointestinal and urogenital tract.
Dilution	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500,ELISA=1:5000-10000
Format	0.01M TBS(pH7.4) with 1% BSA, 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.

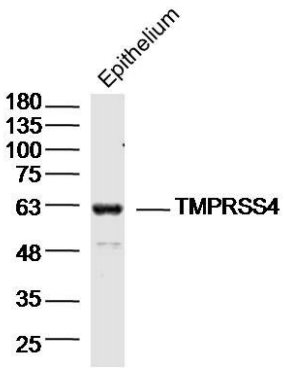
Protein Information

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). 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).

Images



Sample:A431 (Human)Cell Lysate at 40 ug
Primary: Anti-TMPRSS4(AP58410)at 1/300 dilution
Secondary: IRDye800CW Goat Anti-RabbitIgG at 1/20000 dilution
Predicted band size: 48kD
Observed band size: 55kD



Sample:Epithelium (Mouse)Lysate at 40 ug
Primary: Anti-TMPRSS4(AP58410)at 1/300 dilution
Secondary: IRDye800CW Goat Anti-RabbitIgG at 1/20000 dilution
Predicted band size: 48kD
Observed band size: 60kD