

Matriptase 2 Polyclonal Antibody
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP58956**Specification**

Matriptase 2 Polyclonal Antibody - Product Information

Application	WB, IHC-P, IHC-F, IF, ICC, E
Primary Accession	Q8IU80
Reactivity	Rat, Dog, Bovine
Host	Rabbit
Clonality	Polyclonal
Calculated MW	89 KDa
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human Matriptase 2
Epitope Specificity	711-811/811
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 (Probable).
SIMILARITY	Belongs to the peptidase S1 family. Contains 2 CUB domains. Contains 4 LDL-receptor class A domains. Contains 1 peptidase S1 domain.
SUBUNIT	Interacts with CDCP1. May interact with TMEFF1.
DISEASE	Defects in TMPRSS6 are the cause of iron-refractory iron deficiency anemia (IRIDA) [MIM:206200]; also known as hypochromic microcytic anemia with defect in iron metabolism or hereditary iron-handling disorder or pseudo-iron-deficiency anemia. Key features include congenital hypochromic microcytic anemia, very low mean corpuscular erythrocyte volume, low transferrin saturation, abnormal iron absorption characterized by no hematologic improvement following treatment with oral iron, and abnormal iron utilization characterized by a sluggish, incomplete response to parenteral iron. This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Important Note	

Background Descriptions

The protein encoded by this gene is an epithelial-derived, integral membrane serine protease. This

protease forms a complex with the Kunitz-type serine protease inhibitor, HAI-1, and is found to be activated by sphingosine 1-phosphate. This protease has been shown to cleave and activate hepatocyte growth factor/scattering factor, and urokinase plasminogen activator, which suggest the function of this protease as an epithelial membrane activator for other proteases and latent growth factors. The expression of this protease has been associated with breast, colon, prostate, and ovarian tumors, which implicates its role in cancer invasion, and metastasis.

Matriptase 2 Polyclonal Antibody - Additional Information

Gene ID 164656

Other Names

Transmembrane protease serine 6, 3.4.21.-, Matriptase-2, TMPRSS6

Target/Specificity

Liver specific.

Dilution

WB~~1:1000<br \>IHC-P~~N/A<br \>IHC-F~~N/A<br \>IF~~1:50~200<br \>ICC~~N/A<br \>E~~N/A

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.

Matriptase 2 Polyclonal Antibody - Protein Information

Name TMPRSS6

Function

Membrane-bound serine protease (PubMed:18976966, PubMed:20518742, PubMed:25156943, PubMed:25588876). Through the cleavage of cell surface hemojuvelin (HJV), a regulator of the expression of the iron absorption-regulating hormone hepcidin/HAMP, plays a role in iron homeostasis (PubMed:18408718, PubMed:18976966, PubMed:25156943).

Cellular Location

Cell membrane; Single-pass type II membrane protein. Note=The processed, activated two-chains form is released in the extracellular space.

Matriptase 2 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](#)

Matriptase 2 Polyclonal Antibody - Images