

Matriptase 2 Polyclonal Antibody

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP58956

Specification

Matriptase 2 Polyclonal Antibody - Product Information

Application
Primary Accession

Reactivity Host Clonality Calculated MW Physical State

Immunogen

Epitope Specificity

Isotype **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.

WB, IHC-P, IHC-F, IF, ICC, E

from human Matriptase 2

SUBUNIT Interacts with CDCP1. May interact with

TMEFF1.

08IU80

Rabbit

89 KDa

Liquid

laG

Polyclonal

711-811/811

Rat, Dog, Bovine

DISEASE Defects in TMPRSS6 are the cause of

iron-refractory iron deficiency anemia (IRIDA) [MIM:206200]; also known as

hypochromic microcytic anemia with defect

KLH conjugated synthetic peptide derived

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.

Background Descriptions

Important Note

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

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<span class ="dilution_WB">WB~~1:1000</span><br \><span class
="dilution_IHC-P">IHC-P~~N/A</span><br \><span class
="dilution_IHC-F">IHC-F~~N/A</span><br \><span class
="dilution_IF">IF~~1:50~200</span><br \><span class ="dilution_ICC">ICC~~N/A</span><br \><span class ="dilution_ICC">ICC~~N/A</span><br \><span class ="dilution_ICC">ICC~~N/A</span><br \><span class ="dilution_ICC">ICC~~N/A</span>
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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 hepicidin/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.





Tel: 858.875.1900 Fax: 858.875.1999

- Western Blot
- Blocking Peptides
- Dot Blot
- <u>Immunohistochemistry</u>
- Immunofluorescence
- <u>Immunoprecipitation</u>
- Flow Cytomety
- Cell Culture

Matriptase 2 Polyclonal Antibody - Images