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Matriptase Rabbit pAb

Catalog # AP99953

Product Information

Primary Accession	Q8IU80
Other Accession	Q8IU80
Reactivity	Human
Predicted	Rat, Mouse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	90000
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human Matriptase
Epitope Specificity	11-100/855
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
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.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
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.

Additional Information

Gene ID	164656
Other Names	IRIDA; MT2; 1300008A22Rik; TMPS6_HUMAN; TMPRSS6; Matriptase-2; 3.4.21.-; TMPS6_MOUSE; transmembrane serine protease 6; transmembrane protease,

	serine 6
Dilution	ICC/IF=1:50-200
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	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.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.