

Anti-Matriptase 2 antibody ab28287

★★★★★ [5 Abreviews](#) [2 References](#) [1 Image](#)

Overview

Product name	Anti-Matriptase 2 antibody
Description	Rabbit polyclonal to Matriptase 2
Host species	Rabbit
Specificity	ab28287 recognises the stem region of Matriptase 2. It does not react with the free enzyme. It does not recognise Matriptase 1.
Tested applications	Suitable for: ICC/IF
Species reactivity	Reacts with: Human
Immunogen	Synthetic peptide corresponding to the stem region of human Matriptase 2. Read Abcam's proprietary immunogen policy (Peptide available as ab41267 .)
General notes	<p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As</p>

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term.
Storage buffer	Preservative: 0.05% Sodium azide Constituent: 50% Glycerol
Purity	Immunogen affinity purified
Clonality	Polyclonal
Isotype	IgG

Applications

The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab28287 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
ICC/IF	★★★★★ (3)	Use a concentration of 1 µg/ml.

Target

Function

Serine protease which hydrolyzes a range of proteins including type I collagen, fibronectin and fibrinogen. Can also activate urokinase-type plasminogen activator with low efficiency. May play a specialized role in matrix remodeling processes in liver. Required to sense iron deficiency. Overexpression suppresses activation of the HAMP promoter.

Tissue specificity

Liver specific.

Involvement in 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.

Sequence similarities

Belongs to the peptidase S1 family.
Contains 2 CUB domains.
Contains 3 LDL-receptor class A domains.
Contains 1 peptidase S1 domain.

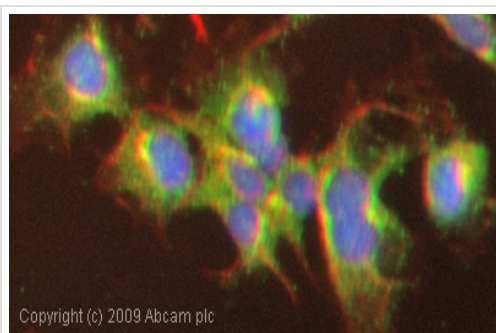
Domain

Cytoplasmic domain mediates HAMP suppression via proximal promoter element(s).

Cellular localization

Cell membrane.

Images



Immunocytochemistry/ Immunofluorescence - Anti-Matriptase 2 antibody (ab28287)

ICC/IF image of ab28287 stained Hek293 cells. The cells were 100% methanol fixed (5 min) and then incubated in 1%BSA / 10% normal goat serum / 0.3M glycine in 0.1% PBS-Tween for 1h to permeabilise the cells and block non-specific protein-protein interactions. The cells were then incubated with the antibody (ab28287, 1µg/ml) overnight at +4°C. The secondary antibody (green) was Alexa Fluor® 488 goat anti-rabbit IgG (H+L) used at a 1/1000 dilution for 1h. Alexa Fluor® 594 WGA was used to label plasma membranes (red) at a 1/200 dilution for 1h. DAPI was used to stain the cell nuclei (blue) at a concentration of 1.43µM.

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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