

Product datasheet

Anti-Matriptase 2 antibody - Cytoplasmic domain ab56180

★★★★★ [2 Abreviews](#) [6 References](#) [1 Image](#)

Overview

Product name	Anti-Matriptase 2 antibody - Cytoplasmic domain
Description	Rabbit polyclonal to Matriptase 2 - Cytoplasmic domain
Host species	Rabbit
Specificity	ab56180 reacts with Matriptase 2 (TMPRSS6) and does not react with the other TMPRSSs. ab56180 recognizes all of the listed forms of Matriptase 2.
Tested applications	Suitable for: WB
Species reactivity	Reacts with: Human
Immunogen	Synthetic peptide based on the aminoterminal end (cytoplasmic domain) of Matriptase 2 (Human).
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 -20°C. Stable for 12 months at -20°C.
Storage buffer	<p>pH: 7.40</p> <p>Preservative: 0.05% Sodium azide</p> <p>Constituents: 50% Glycerol, 2.9% Sodium chloride, PBS</p>
Purity	Immunogen affinity purified
Clonality	Polyclonal
Isotype	IgG

Applications

The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab56180 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
WB	★★★★★ (1)	1/1000 - 1/5000. Predicted molecular weight: 89 kDa.

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.

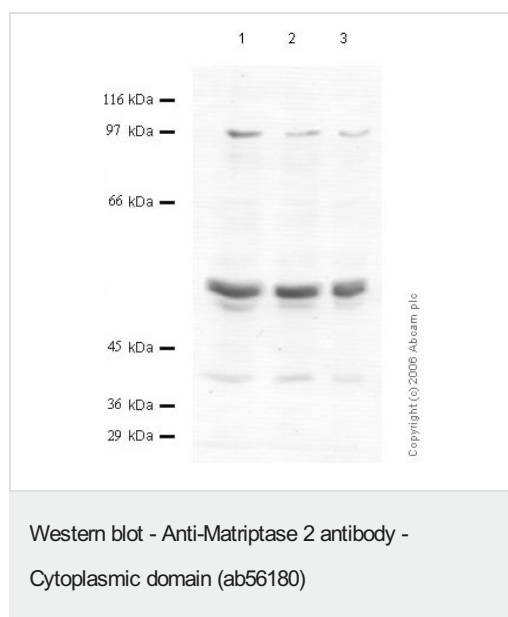
Domain

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

Cellular localization

Cell membrane.

Images



All lanes : Anti-Matriptase 2 antibody - Cytoplasmic domain
(ab56180) at 1/1000 dilution

All lanes : Cell media from human embryonic kidney HEK293 cells

Predicted band size: 89 kDa

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

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