abcam

Product datasheet

Recombinant Human Matriptase 2 protein ab132358

1 Image

Description

Product name	Recombinant Human Matriptase 2 protein
Expression system	Wheat germ
Accession	Q8IU80-2
Protein length	Full length protein
Animal free	No
Nature	Recombinant
Species	Human
Sequence	MLLLFHSKRMPVAEAPQVAGGQGDGGDGEEAEPEGMF KACEDSKRKARGY LRLVPLFVLLALLVLASAGVLLWYFLGYKAEVMVSQVYSG SLRVLNRHFS QDLTRRESSAFRSETAKAQKMLKELITSTRLGTYYNSSSVY SFGEGPLTC FFWFILQIPEHRRLMLSPEVVQALLVEELLSTVNSSAAVPY RAEYEVDPE GLVILEASVKDIAALNSTLGCYRYSYVGQGQVLRLKGPDHL ASSCLWHLQ GPKDLMLKLRLEWTLAECRDRLAMYDVAGPLEKRLITSVY GCSRQEPVVE VLASGAIMAVVWKKGLHSYYDPFVLSVQPVVFQACEVNL TLDNRLDSQGV LSTPYFPSYYSPQTHCSWHLTVPSLDYGLALWFDAYALRR QKYDLPCTQG QWTIQNRRYHFLSSLWLPFLPPPPSLPSSTVTPSLEAQVP NLRGAARGAS RGWGWCQACCP
Predicted molecular weight	78 kDa including tags
Amino acids	1 to 461

Specifications

Our **Abpromise guarantee** covers the use of **ab132358** in the following tested applications.

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

Applications	ELISA

	Western blot
	SDS-PAGE
Form	Liquid
Additional notes	

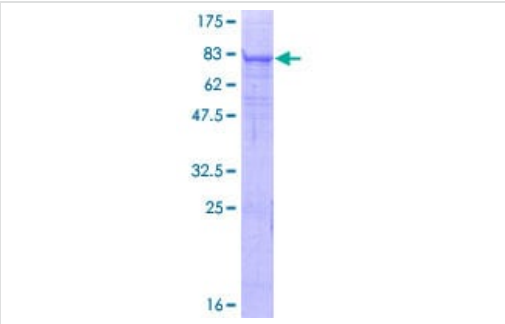
Preparation and Storage

Stability and Storage	Shipped on dry ice. Upon delivery aliquot and store at -80ºC. Avoid freeze / thaw cycles. pH: 8.00 Constituents: 0.31% Glutathione, 0.79% Tris HCl

General Info

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



SDS-PAGE - Recombinant Human Matriptase 2 protein (ab132358)

12.5% SDS-PAGE analysis of ab132358 stained with Coomassie Blue.

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- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

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