abcam

Product datasheet

Anti-Factor XIIIa antibody [F13A1/1448] ab218392

1 Abreviews 3 Images

Overview

Product name	Anti-Factor XIIIa antibody [F13A1/1448]
Description	Mouse monoclonal [F13A1/1448] to Factor XIIIa
Host species	Mouse
Tested applications	**Suitable for:** Protein Array, WB, IHC-P
Species reactivity	**Reacts with:** Human
Immunogen	Recombinant fragment within Human Factor XIIIa aa 1-200. The exact immunogen sequence used to generate this antibody is proprietary information. If additional detail on the immunogen is needed to determine the suitability of the antibody for your needs, please **contact** our Scientific Support team to discuss your requirements. Database link: **P00488** Run BLAST with Run BLAST with
Positive control	IHC-P: Human histiocytoma tissue. WB: HeLa cell lysate. Recombinant Human Factor XIIIa protein.
General notes	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. 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

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. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.2 Preservative: 0.05% Sodium azide Constituents: 0.05% BSA, 99% PBS
Purity	Protein A purified
Clonality	Monoclonal

Clone number	F13A1/1448
Isotype	IgG2b
Light chain type	kappa

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab218392 in the following tested applications.

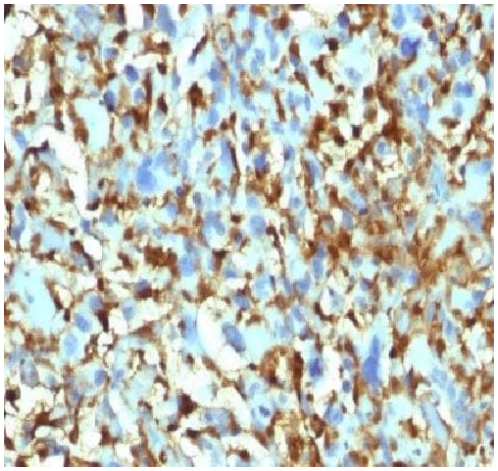
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
Protein Array		Use at an assay dependent concentration.
WB		Use a concentration of 1 - 2 µg/ml. Predicted molecular weight: 83 kDa.
IHC-P	★★★★☆ (1)	Use a concentration of 1 - 2 µg/ml. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

Target

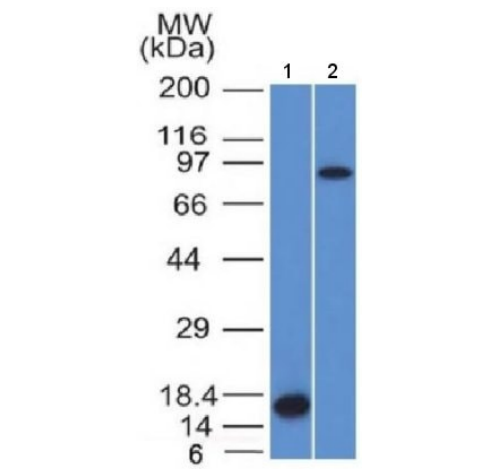
Function	Factor XIII is activated by thrombin and calcium ion to a transglutaminase that catalyzes the formation of gamma-glutamyl-epsilon-lysine cross-links between fibrin chains, thus stabilizing the fibrin clot. Also cross-link alpha-2-plasmin inhibitor, or fibronectin, to the alpha chains of fibrin.
Involvement in disease	Defects in F13A1 are the cause of factor XIII subunit A deficiency (FA13AD) [MIM:613225]. FA13AD is an autosomal recessive disorder characterized by a life-long bleeding tendency, impaired wound healing and spontaneous abortion in affected women.
Sequence similarities	Belongs to the transglutaminase superfamily. Transglutaminase family.
Post-translational modifications	The activation peptide is released by thrombin.
Cellular localization	Cytoplasm. Secreted. Secreted into the blood plasma. Cytoplasmic in most tissues, but also secreted in the blood plasma.

Images



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Factor XIIIa antibody [F13A1/1448] (ab218392)

Immunohistochemical analysis of formalin-fixed paraffin-embedded human histiocytoma tissue, labeling Factor XIIIa using ab218392 at 2 µg/mL.

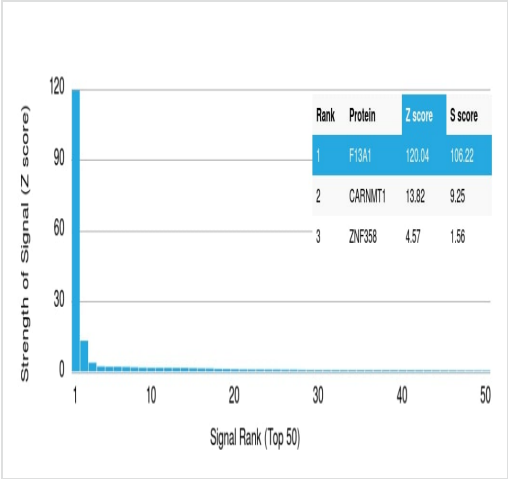


Western blot - Anti-Factor XIIIa antibody [F13A1/1448] (ab218392)

All lanes : Anti-Factor XIIIa antibody [F13A1/1448] (ab218392) at 1 µg/ml

Lane 1 : Recombinant Human Factor XIIIa protein
Lane 2 : HeLa cell lysate

Predicted band size: 83 kDa



Protein Array - Anti-Factor XIIIa antibody [F13A1/1448] (ab218392)

ab218392 was tested in protein array against over 19000 different full-length human proteins.

Z- and S- Score: The Z-score represents the strength of a signal that a monoclonal antibody (MAb) (in combination with a fluorescently-tagged anti-IgG secondary antibody) produces when binding to a particular protein on the HuProtTM array. Z-scores are described in units of standard deviations (SD's) above the mean value of all signals generated on that array. If targets on HuProtTM are arranged in descending order of the Z-score, the S-score is the difference (also in units of SD's) between the Z-score. S-score therefore represents the relative target specificity of a MAb to its intended target.

A MAb is specific to its intended target if the MAb has an S-score of at least 2.5. For example, if a MAb binds to protein X with a Z-score of 43 and to protein Y with a Z-score of 14, then the S-score for the binding of that MAb to protein X is equal to 29.

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