abcam

Product datasheet

Alexa Fluor® 488 Anti-Factor XIIIa antibody [EP3372] ab225019

Recombinant RabMAb

2 Images

Overview

Immunogen

Product name Alexa Fluor® 488 Anti-Factor XIIIa antibody [EP3372]

Description Alexa Fluor® 488 Rabbit monoclonal [EP3372] to Factor XIIIa

Host species Rabbit

Conjugation Alexa Fluor® 488, Ex: 495nm, Em: 519nm

Tested applications Suitable for: IHC-P Species reactivity Reacts with: Rat

Predicted to work with: Human

Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.

Positive control IHC-P: normal human skin tissue sections

General notes This product is a recombinant monoclonal antibody, which offers several advantages including:

- High batch-to-batch consistency and reproducibility
- Improved sensitivity and specificity
- Long-term security of supply
- Animal-free production

For more information see here.

Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to **RabMAb® patents**.

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outlicensing@thermofisher.com.

Mouse, Rat: We have preliminary internal testing data to indicate this antibody may not react with these species. Please contact us for more information.

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.

Avoid freeze / thaw cycle. Stable for 12 months at -20°C. Store In the Dark.

Storage buffer pH: 7.40

Preservative: 0.02% Sodium azide

Constituents: 30% Glycerol (glycerin, glycerine), 1% BSA, PBS

Purity Protein A purified

Clonality Monoclonal
Clone number EP3372

Isotype IgG

Applications

The Abpromise guarantee Our Abpromise guarantee covers the use of ab225019 in the following tested applications.

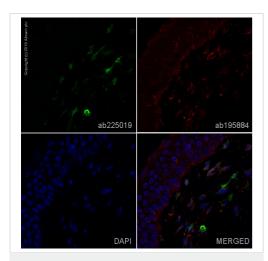
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
IHC-P		1/1000. Perform heat mediated antigen retrieval with citrate buffer pH 6 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 paraffinembedded sections) - Alexa Fluor® 488 Anti-Factor XIIIa antibody [EP3372] (ab225019)

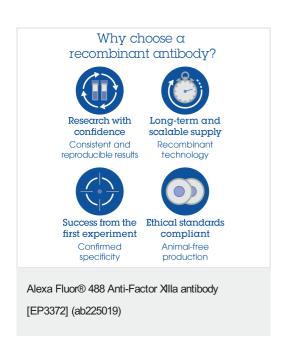
IHC image of Factor XIIIa staining in a section of formalin-fixed paraffin-embedded normal human skin*.

The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH6) in a Biocare Medical NxGen pressure cooker using retrieval settings of 110°C for 20 minutes. Non-specific protein-protein interactions were then blocked in TBS containing 0.025% (v/v) Triton X-100, 0.3M (w/v) glycine and 1% (w/v) BSA for 1h at room temperature. The section was then incubated overnight at +4°C in TBS containing 0.025% (v/v) Triton X-100 and 1% (w/v) BSA with ab225019 at 1/1000 dilution (shown in green) and counterstained using ab195884, Rat monoclonal to Tubulin (Alexa Fluor® 647), at 1/250 dilution (shown in red). Nuclear DNA was labelled with DAPI (shown in blue). The section was then mounted using Fluoromount®.

Image was taken with a confocal microscope (Leica-Microsystems, TCS SP8).

For other IHC staining systems (automated and non-automated), customers should optimize variable parameters such as antigen retrieval conditions, antibody concentrations and incubation times.

*Tissue obtained from the Human Research Tissue Bank, supported by the NIHR Cambridge Biomedical Research Centre.



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