abcam

Product datasheet

Anti-EFEMP1/Fibulin-3 antibody [EPR22855-4] - BSA and Azide free ab259998

Recombinant RabMAb

8 Images

Overview

Product name	Anti-EFEMP1/Fibulin-3 antibody [EPR22855-4] - BSA and Azide free
Description	Rabbit monoclonal [EPR22855-4] to EFEMP1/Fibulin-3 - BSA and Azide free
Host species	Rabbit
Tested applications	**Suitable for:** WB, IHC-P, ICC/IF, Flow Cyt (Intra), IP
Species reactivity	**Reacts with:** Human
Immunogen	Recombinant fragment. This information is proprietary to Abcam and/or its suppliers.
Positive control	WB: HUVEC, Human eye, Human ovary and Human skeletal muscle lysates. IHC-P: Human breast carcinoma, Human colon carcinoma, Human colon and Human testis tissues. ICC/IF: HUVEC cells. Flow Cyt (intra): HUVEC cells. IP: HUVEC cells.
General notes	ab259998 is the carrier-free version of **ab256457**. Our **carrier-free** antibodies are typically supplied in a PBS-only formulation, purified and free of BSA, sodium azide and glycerol. The carrier-free buffer and high concentration allow for increased conjugation efficiency. This conjugation-ready format is designed for use with fluorochromes, metal isotopes, oligonucleotides, and enzymes, which makes them ideal for antibody labelling, functional and cell-based assays, flow-based assays (e.g. mass cytometry) and Multiplex Imaging applications. Use our **conjugation kits** for antibody conjugates that are ready-to-use in as little as 20 minutes with <1 minute hands-on-time and 100% antibody recovery: available for fluorescent dyes, HRP, biotin and gold. This product is compatible with the Maxpar® Antibody Labeling Kit from Fluidigm, without the need for antibody preparation. Maxpar® is a trademark of Fluidigm Canada Inc. 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**.

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C. Do Not Freeze.
Storage buffer	pH: 7.2 Constituent: PBS
Carrier free	Yes
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR22855-4
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab259998 in the following tested applications.

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

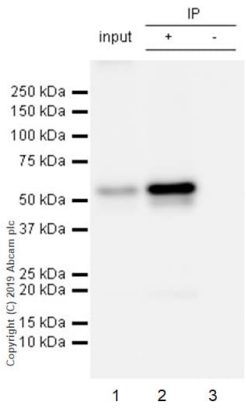
Application	Abreviews	Notes
WB		Use at an assay dependent concentration. Predicted molecular weight: 54 kDa.
IHC-P		Use at an assay dependent concentration.
ICC/IF		Use at an assay dependent concentration.
Flow Cyt (Intra)		Use at an assay dependent concentration.
IP		Use at an assay dependent concentration.

Target

Function	Binds EGFR, the EGF receptor, inducing EGFR autophosphorylation and the activation of downstream signaling pathways. May play a role in cell adhesion and migration. May function as a negative regulator of chondrocyte differentiation. In the olfactory epithelium, it may regulate glial cell migration, differentiation and the ability of glial cells to support neuronal neurite outgrowth.
Tissue specificity	In the eye, associated with photoreceptor outer and inner segment regions, the nerve fiber layer, outer nuclear layer and inner and outer plexiform layers of the retina.
Involvement in disease	Defects in EFEMP1 are a cause of Doyne honeycomb retinal dystrophy (DHRD) [MIM:126600]; also known as malattia leventinese (MLVT) (ML). DHRD is an autosomal dominant disease characterized by yellow-white deposits known as drusen that accumulate beneath the retinal pigment epithelium.
Sequence similarities	Belongs to the fibulin family. Contains 6 EGF-like domains.

Cellular localization	Secreted > extracellular space. Secreted > extracellular space > extracellular matrix. Localizes to the lamina propria underneath the olfactory epithelium.

Images



Immunoprecipitation - Anti-EFEMP1/Fibulin-3 antibody [EPR22855-4] - BSA and Azide free (ab259998)

EFEMP1/Fibulin-3 was immunoprecipitated from 0.35 mg HUVEC (human umbilical vein endothelial cell) whole cell lysate with **ab256457** at 1/30 dilution (2ug in 0.35mg lysates). Western blot was performed on the immunoprecipitate using **ab256457** at 1/1000 dilution. VeriBlot for IP Detection Reagent (HRP) (**ab131366**) was used at 1/5000 dilution.

Lane 1: HUVEC (human umbilical vein endothelial cell) whole cell lysate 10ug

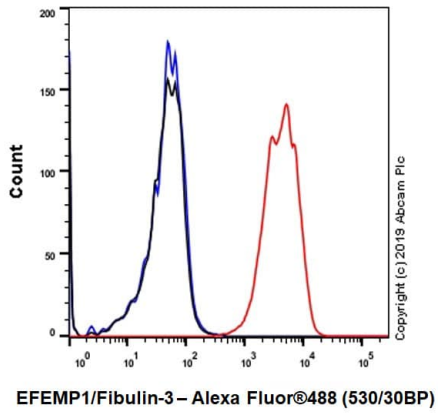
Lane 2: **ab256457** IP in HUVEC whole cell lysate

Lane 3: Rabbit monoclonal IgG (**ab172730**) instead of **ab256457** in HUVEC whole cell lysate

Blocking and dilution buffer and concentration/ 5% NFDM/TBST.

Exposure time: 1 second.

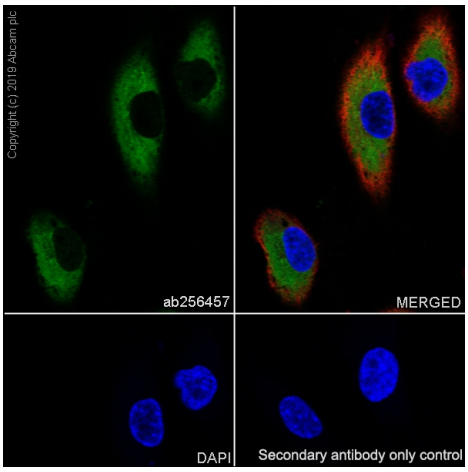
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab256457**).



Flow Cytometry (Intracellular) - Anti-EFEMP1/Fibulin-3 antibody [EPR22855-4] - BSA and Azide free (ab259998)

Intracellular flow cytometric analysis of 4% paraformaldehyde fixed, 90% methanol permeabilized HUVEC (human umbilical vein endothelial cell) cells labelling EFEMP1/Fibulin-3 with **ab256457** at 1/500 dilution (Red) compared with a Rabbit monoclonal IgG (**ab172730**) isotype control (Black) and an unlabelled control (cells without incubation with primary antibody and secondary antibody) (Blue). A Goat anti rabbit IgG (Alexa Fluor® 488, **ab150077**) at 1/2000 dilution was used as the secondary antibody.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab256457**).

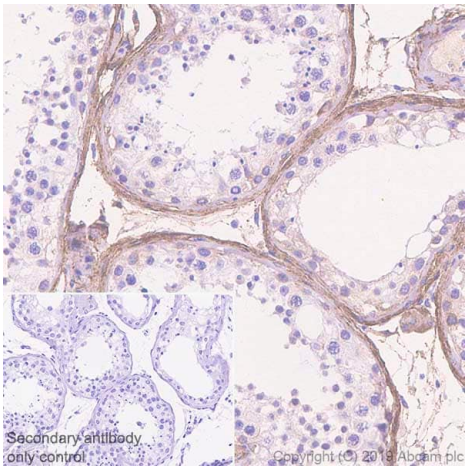


Immunocytochemistry/ Immunofluorescence - Anti-EFEMP1/Fibulin-3 antibody [EPR22855-4] - BSA and Azide free (ab259998)

Immunofluorescent analysis of 4% Paraformaldehyde-fixed, 0.1% TritonX-100 permeabilized HUVEC (human umbilical vein endothelial cell) cells labelling EFEMP1/Fibulin-3 with **ab256457** at 1/500 dilution, followed by Ab256457 anti-EFEMP1 Fibulin-3 **ab150077** AlexaFluor®488 Goat anti-Rabbit secondary antibody at 1/1000 dilution (Green). Confocal image showing cytoplasmic staining in HUVEC cell line is observed. Ab195889 Anti-alpha Tubulin antibody [DM1A] - Microtubule Marker (Alexa Fluor® 594) was used to counterstain tubulin at 1/200 dilution (Red). The Nuclear counterstain was DAPI (Blue).

Secondary antibody only control: Secondary antibody is **ab150077** AlexaFluor®488 Goat anti-Rabbit secondary at 1/1000 dilution.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab256457**).

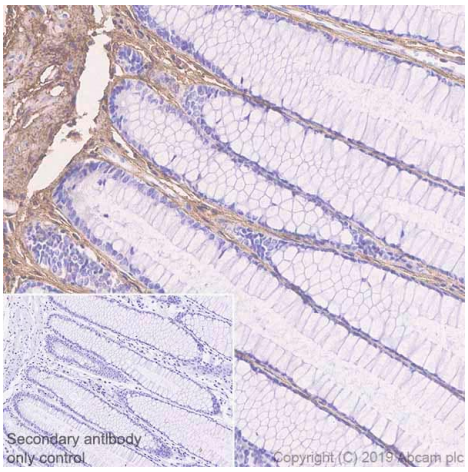


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-EFEMP1/Fibulin-3 antibody [EPR22855-4] - BSA and Azide free (ab259998)

Immunohistochemical analysis of paraffin-embedded Human testis tissue labeling EFEMP1/Fibulin-3 with **ab256457** at 1/500 dilution (1.12 ug/ml) followed by a ready to use Rabbit specific IHC polymer detection kit HRP/DAB (**ab209101**). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0, epitope retrieval solution 2) for 20 mins. Positive staining on the basement membrane in human testes. The section was incubated with **ab256457** for 15 mins at RT. The immunostaining was performed on a Leica Biosystems BOND® RX instrument. Counterstained with Hematoxylin.

Secondary antibody only control/ Secondary antibody is a ready to use Rabbit specific IHC polymer detection kit HRP/DAB (**ab209101**).

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab256457**).

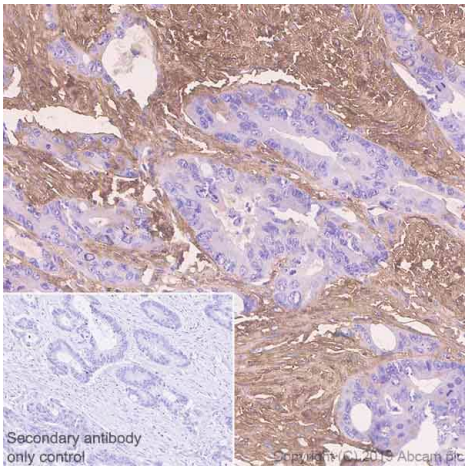


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-EFEMP1/Fibulin-3 antibody [EPR22855-4] - BSA and Azide free (ab259998)

Immunohistochemical analysis of paraffin-embedded Human colon tissue labeling EFEMP1/Fibulin-3 with **ab256457** at 1/500 dilution (1.12 ug/ml) followed by a ready to use Rabbit specific IHC polymer detection kit HRP/DAB (**ab209101**). Positive staining on the stromal cells of human colon. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0, epitope retrieval solution 2) for 20 mins. The section was incubated with **ab256457** for 15 mins at RT. The immunostaining was performed on a Leica Biosystems BOND® RX instrument. Counterstained with Hematoxylin.

Secondary antibody only control/ Secondary antibody is a ready to use Rabbit specific IHC polymer detection kit HRP/DAB (**ab209101**).

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab256457**).

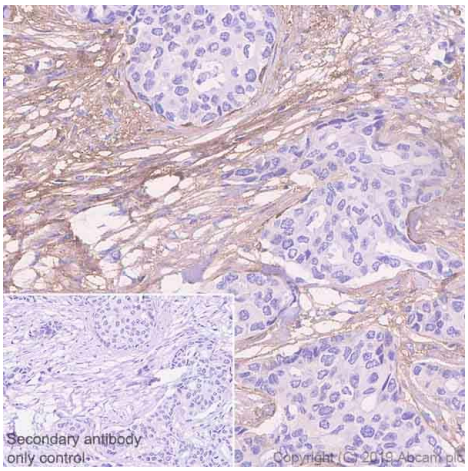


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-EFEMP1/Fibulin-3 antibody [EPR22855-4] - BSA and Azide free (ab259998)

Immunohistochemical analysis of paraffin-embedded Human colon carcinoma tissue labeling EFEMP1/Fibulin-3 with **ab256457** at 1/500 dilution (1.12 ug/ml) followed by a ready to use Rabbit specific IHC polymer detection kit HRP/DAB (**ab209101**). Positive staining on the stromal cells of human colon carcinoma. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0, epitope retrieval solution 2) for 20 mins. The section was incubated with **ab256457** for 15 mins at RT. The immunostaining was performed on a Leica Biosystems BOND® RX instrument. Counterstained with Hematoxylin.

Secondary antibody only control/ Secondary antibody is a ready to use Rabbit specific IHC polymer detection kit HRP/DAB (**ab209101**).

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab256457**).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-EFEMP1/Fibulin-3 antibody [EPR22855-4] - BSA and Azide free (ab259998)

Immunohistochemical analysis of paraffin-embedded Human breast carcinoma tissue labeling EFEMP1/Fibulin-3 with **ab256457** at 1/500 dilution (1.12 ug/ml) followed by a ready to use Rabbit specific IHC polymer detection kit HRP/DAB (**ab209101**). Positive staining on the stroma cells of human breast carcinoma (PMID/ 19115204). The section was incubated with **ab256457** for 15 mins at RT. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0, epitope retrieval solution 2) for 20 mins. The immunostaining was performed on a Leica Biosystems BOND® RX instrument. Counterstained with Hematoxylin.

Secondary antibody only control: Secondary antibody is a ready to use Rabbit specific IHC polymer detection kit HRP/DAB (**ab209101**).

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab256457**).

Anti-EFEMP1/Fibulin-3 antibody [EPR22855-4] - BSA and Azide free (ab259998)

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