abcam

Product datasheet

Anti-FH/Fumarase antibody [EPR11647(2)(B)] - N-terminal ab184945

Recombinant RabMAb

4 Images

Overview

Product name	Anti-FH/Fumarase antibody [EPR11647(2)(B)] - N-terminal
Description	Rabbit monoclonal [EPR11647(2)(B)] to FH/Fumarase - N-terminal
Host species	Rabbit
Tested applications	**Suitable for:** Flow Cyt (Intra), ICC/IF, WB
Species reactivity	**Reacts with:** Human **Predicted to work with:** Mouse, Rat
Immunogen	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
Positive control	HepG2, HeLa, 293 and A549 cells lysates; HeLa cells.
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**.

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: 0.01% Sodium azide Constituents: 59% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR11647(2)(B)

Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab184945 in the following tested applications.

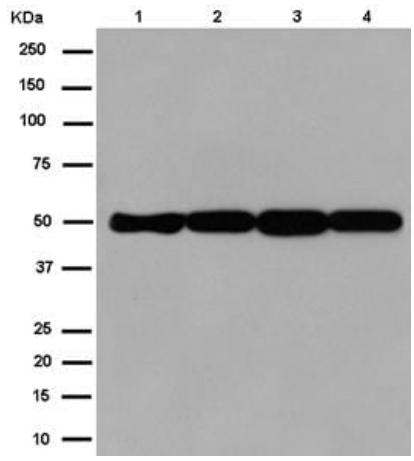
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
Flow Cyt (Intra)		1/160. **ab172730** - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody.
ICC/IF		1/100.
WB		1/1000 - 1/10000. Detects a band of approximately 49 kDa (predicted molecular weight: 55 kDa).

Target

Function	Also acts as a tumor suppressor.
Pathway	Carbohydrate metabolism; tricarboxylic acid cycle; (S)-malate from fumarate: step 1/1.
Involvement in disease	Defects in FH are the cause of fumarase deficiency (FHD) [MIM:606812]; also known as fumaricaciduria. FHD is characterized by progressive encephalopathy, developmental delay, hypotonia, cerebral atrophy and lactic and pyruvic acidemia. Defects in FH are the cause of multiple cutaneous and uterine leiomyomata (MCUL1) [MIM:150800]. MCUL1 is an autosomal dominant condition in which affected individuals develop benign smooth muscle tumors (leiomyomata) of the skin. Affected females also usually develop leiomyomata of the uterus (fibroids). Defects in FH are the cause of hereditary leiomyomatosis and renal cell cancer (HLRCC) [MIM:605839].
Sequence similarities	Belongs to the class-II fumarase/aspartase family. Fumarase subfamily.
Cellular localization	Cytoplasm and Mitochondrion.

Images



Western blot - Anti-FH/Fumarase antibody [EPR11647(2)(B)] - N-terminal (ab184945)

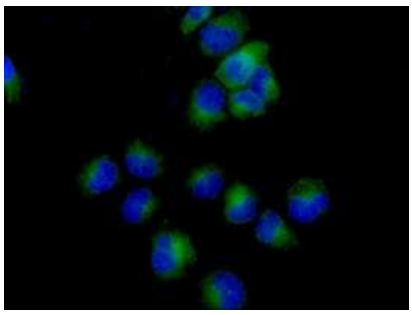
All lanes : Anti-FH/Fumarase antibody [EPR11647(2)(B)] - N-terminal (ab184945) at 1/2000 dilution

Lane 1 : HepG2 cell lysate
Lane 2 : HeLa cell lysate
Lane 3 : 293 cell lysate
Lane 4 : A549 cell lysate

Lysates/proteins at 20 µg per lane.

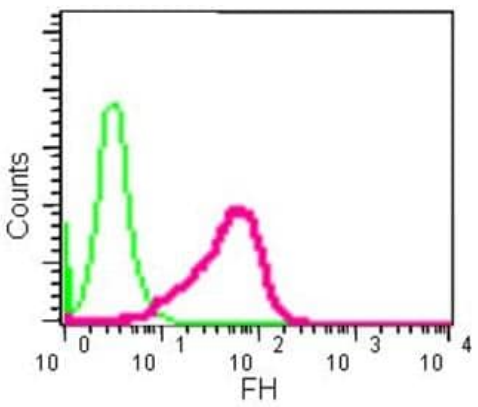
Secondary
All lanes : goat anti-rabbit IgG, (H+L), peroxidase conjugated at 1/1000 dilution

Predicted band size: 55 kDa
Observed band size: 49 kDa



Immunocytochemistry/ Immunofluorescence - Anti-FH/Fumarase antibody [EPR11647(2)(B)] - N-terminal (ab184945)

Immunofluorescence analysis of, -20 °C acetone-fixed, HeLa cells labeling FH/Fumarase with ab184945 at a 1/100 dilution. As secondary antibody goat anti-rabbit IgG (Alexa Fluor®488) was used at a 1/200. In blue DAPI staining.



Flow Cytometry (Intracellular) - Anti-FH/Fumarase antibody [EPR11647(2)(B)] - N-terminal (ab184945)

Intracellular Flow Cytometry analysis of 2% paraformaldehyde-fixed HeLa cells labeling FH/Fumarase with ab184945 at a 1/160 dilution (red)or negative control rabbit IgG (green). Secondary antibody goat anti-rabbit IgG (FITC) at a 1/150 dilution.

Anti-FH/Fumarase antibody [EPR11647(2)(B)] - N-terminal (ab184945)

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