abcam

Product datasheet

Anti-FH/Fumarase antibody ab113963

2 References 3 Images

Overview

Product name	Anti-FH/Fumarase antibody
Description	Goat polyclonal to FH/Fumarase
Host species	Goat
Tested applications	**Suitable for:** WB, IHC-P
Species reactivity	**Reacts with:** Human **Predicted to work with:** Mouse, Rat, Sheep, Horse, Chicken, Cow, Dog, Pig, Zebrafish, Chinese hamster
Immunogen	Synthetic peptide corresponding to Human FH/Fumarase aa 150-250 (internal sequence) (Cysteine residue). **Run BLAST with** ExPASy **Run BLAST with** NCBI
Positive control	Human Heart and Human Skeletal Muscle tissue Human Kidney lysate
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 -20°C.
Storage buffer	pH: 7.30 Preservative: 0.02% Sodium azide Constituents: 99% Tris buffered saline, 0.5% BSA
Purity	Immunogen affinity purified
Clonality	Polyclonal
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab113963 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 a concentration of 0.01 µg/ml. Predicted molecular weight: 55 kDa.
IHC-P		Use a concentration of 3.75 µg/ml.

Target

Function Also acts as a tumor suppressor.

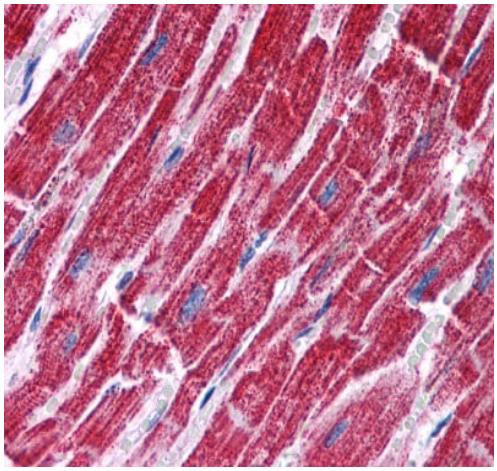
Pathway Carbohydrate metabolism; tricarboxylic acid cycle; (S)-malate from fumarate: step 1/1.

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.

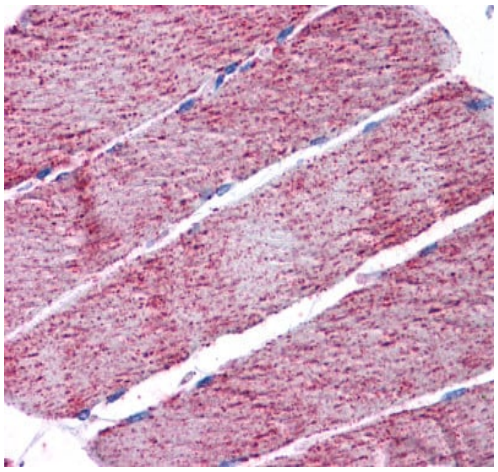
Cellular localization Cytoplasm and Mitochondrion.

Images



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-FH/Fumarase antibody (ab113963)

Immunohistochemical staining of Human Heart using ab113963 at 3.75µg/ml



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-FH/Fumarase antibody (ab113963)

Immunohistochemical staining of Human Skeletal Muscle using ab113963 at 3.75µg/ml

Western blot - Anti-FH/Fumarase antibody (ab113963)

Anti-FH/Fumarase antibody (ab113963) at 0.01 µg/ml + Human Kidney lysate at 35 µg

Developed using the ECL technique.

Predicted band size: 55 kDa

Primary incubation was 1 hour.

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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