

产品名称: FH(7F1)Mouse Monoclonal Antibody
产品货号: AMM10956



产品概述 (Summary)

产品名称 (Production Name)	FH(7F1)Mouse Monoclonal Antibody
描述 (Description)	Mouse monoclonal Antibody
宿主 (Host)	Mouse
应用 (Application)	WB,IHC,ICC/IF
种属反应性 (Reactivity)	Human,Mouse,Rat

产品性能 (Performance)

偶联物 (Conjugation)	Unconjugated
修饰 (Modification)	Unmodified
同种型 (Isotype)	IgG
克隆 (Clonality)	Monoclonal
形式 (Form)	Liquid
存放说明 (Storage)	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
储存溶液 (Buffer)	PBS, pH 7.4, containing 0.5%protective protein, 0.02% New type preservative N as Preservative and 50% Glycerol.
纯化方式 (Purification)	Affinity purification

免疫原信息 (Immunogen)

基因名 (Gene Name)	FH
别名 (Alternative Names)	Fumarate hydratase, mitochondrial (Fumarase) (EC 4.2.1.2)
基因 ID (Gene ID)	2271.0
蛋白 ID (SwissProt ID)	P07954.Synthetic Peptide of FH

产品应用 (Application)

稀释比 (Dilution Ratio)	WB 1:1000-1:3000,IHC 1:50-1:300,ICC/IF 1:100-1:200
蛋白分子量 (Molecular Weight)	50kDa

研究背景 (Background)

The protein encoded by this gene is an enzymatic component of the tricarboxylic acid (TCA) cycle, or Krebs cycle, and

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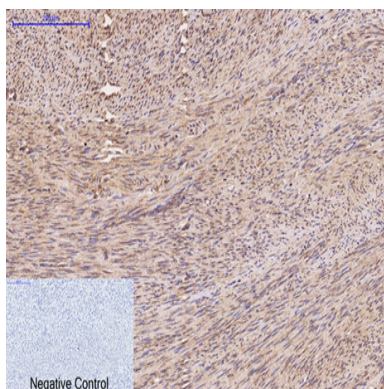


catalyzes the formation of L-malate from fumarate. It exists in both a cytosolic form and an N-terminal extended form, differing only in the translation start site used. The N-terminal extended form is targeted to the mitochondrion, where the removal of the extension generates the same form as in the cytoplasm. It is similar to some thermostable class II fumarases and functions as a homotetramer. Mutations in this gene can cause fumarase deficiency and lead to progressive encephalopathy. [provided by RefSeq, Jul 2008],catalytic activity:(S)-malate = fumarate + H₂O.,disease:Defects in FH are the cause of fumarase deficiency (FD) [MIM:606812]; also known as fumaricaciduria. FD is characterized by progressive encephalopathy, developmental delay, hypotonia, cerebral atrophy and lactic and pyruvic acidemia.,disease:Defects in FH are the cause of hereditary leiomyomatosis and renal cell cancer (HLRCC) [MIM:605839].,disease: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).,function:Also acts as a tumor suppressor.,miscellaneous:There are 2 substrate binding sites: the catalytic A site, and the non-catalytic B site that may play a role in the transfer of substrate or product between the active site and the solvent. Alternatively, the B site may bind allosteric effectors.,pathway:Carbohydrate metabolism; tricarboxylic acid cycle.,PTM:Isoform Cytoplasmic is acetylated at position 2.,similarity:Belongs to the class-II fumarase/aspartase family. Fumarase subfamily.,subunit:Homotetramer.,

研究领域 (Research Area)

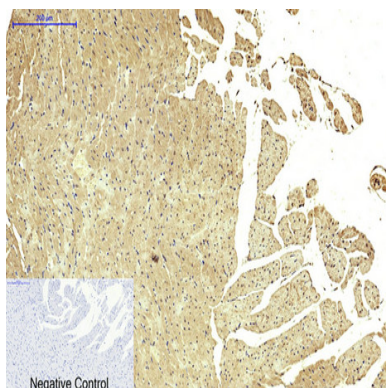
Citrate cycle (TCA cycle);Pathways in cancer;Renal cell carcinoma;

图片 (Image Data)

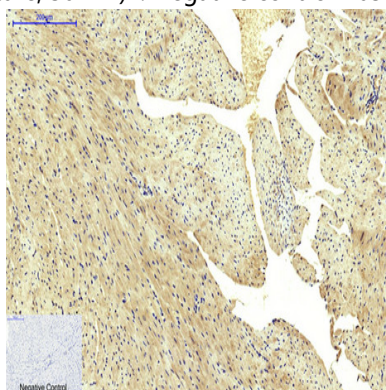


Immunohistochemical analysis of paraffin-embedded Human-uterus tissue. 1,FH Monoclonal Antibody (7F1) was diluted at 1:200 (4°C,overnight) . 2, Sodium citrate pH 6.0 was used for antibody retrieval (>98°C,20min) . 3,Secondary antibody was diluted at 1:200 (room temperature, 30min) . Negative control was used by secondary antibody only.

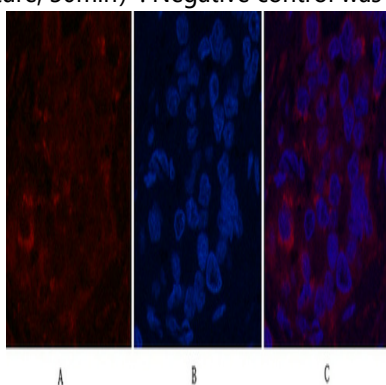
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Immunohistochemical analysis of paraffin-embedded Rat-heart tissue. 1, FH Monoclonal Antibody (7F1) was diluted at 1:200 (4°C, overnight). 2, Sodium citrate pH 6.0 was used for antibody retrieval (>98°C, 20min). 3, Secondary antibody was diluted at 1:200 (room temperature, 30min). Negative control was used by secondary antibody only.

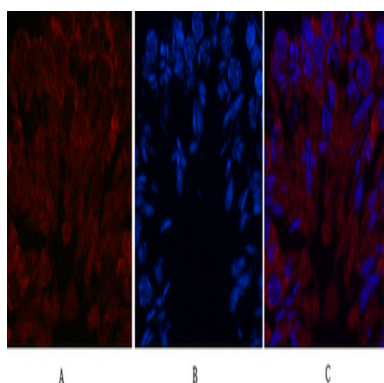


Immunohistochemical analysis of paraffin-embedded Mouse-heart tissue. 1, FH Monoclonal Antibody (7F1) was diluted at 1:200 (4°C, overnight). 2, Sodium citrate pH 6.0 was used for antibody retrieval (>98°C, 20min). 3, Secondary antibody was diluted at 1:200 (room temperature, 30min). Negative control was used by secondary antibody only.

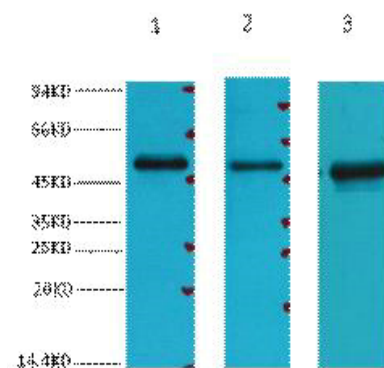


Immunofluorescence analysis of Human-liver-cancer tissue. 1, FH Monoclonal Antibody (7F1) (red) was diluted at 1:200 (4°C, overnight). 2, Cy3 labeled Secondary antibody was diluted at 1:300 (room temperature, 50min). 3, Picture B: DAPI (blue) 10min. Picture A: Target. Picture C: merge of A+B

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Immunofluorescence analysis of Mouse-testis tissue. 1, FH Monoclonal Antibody (7F1) (red) was diluted at 1:200 (4°C, overnight). 2, Cy3 labeled Secondary antibody was diluted at 1:300 (room temperature, 50min). 3, Picture B: DAPI (blue) 10min. Picture A: Target. Picture B: DAPI. Picture C: merge of A+B



Western blot analysis of 1) 293T, 2) HepG2, 3) HeLa, diluted at 1:3000.

注意事项 (Note)

For research use only .