Product Datasheet

FH Antibody

Catalog No: #32975

Package Size: #32975-1 50ul #32975-2 100ul

Signalway Antibody
Orders: order@signalwayantibody.com
Support: tech@signalwayantibody.com

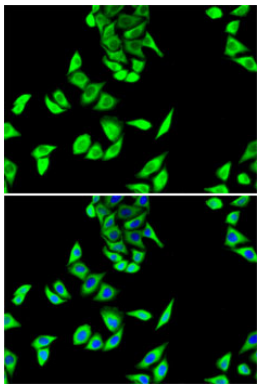
Description

Product Name	FH Antibody
Host Species	Rabbit
Clonality	Polyclonal
Isotype	IgG
Purification	Affinity purification
Applications	WB,IHC,IF
Species Reactivity	Human,Mouse,Rat
Specificity	The antibody detects endogenous level of total FH protein.
Immunogen Type	Recombinant Protein
Immunogen Description	Recombinant fusion protein of human FH (NP_000134.2).
Conjugates	Unconjugated
Target Name	FH
Other Names	FH;FMRD;HLRCC;LRCC;MCL;MCUL1
Accession No.	Uniprot:P07954GeneID:2271
SDS-PAGE MW	50kDa
Concentration	1.0mg/ml
Formulation	PBS with 0.02% sodium azide,50% glycerol,pH7.3.
Storage	Store at -20°C. Avoid freeze / thaw cycles.

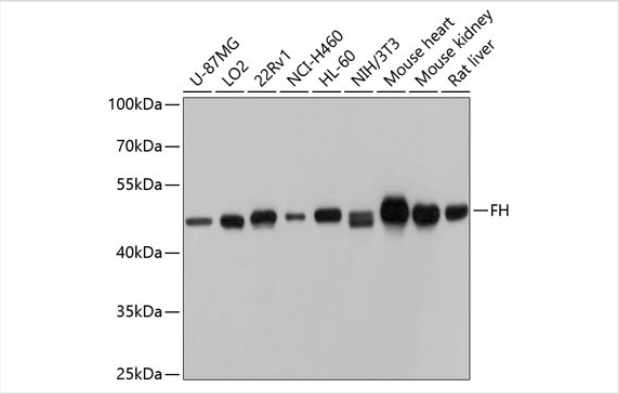
Application Details

WB□1:500 - 1:2000IHC□1:50 - 1:200IF□1:50 - 1:100

Images



Immunofluorescence analysis of U2OS cells using FH antibody.



Western blot analysis of extracts of various cell lines, using FH antibody.

Background

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

Published Papers

Ting Wangı ε- iujing Yu Li et al el at., GlcNAcylation of fumarase maintains tumour growth under glucose deficiency., Nature Cell Biology, doi: 10.1038/ncb3562(2017)

PMID:28628081

el at., PAK4 Phosphorylates Fumarase and Blocks TGFβ-Induced Cell Growth Arrest in Lung Cancer Cells. In Cancer Res on 2019 Apr 1 by Chen T, Wang T, et al..PMID:30683654, , (2019)

PMID:30683654

el at., O-GlcNAcylation of Fumarase Maintains Tumour Growth Under Glucose Deficiency .In Nat Cell Biol ON 2017 Jul by Ting Wang , Qiujing Yu,et al..PMID: 28628081, , (2017)

PMID:28628081

el at., Local generation of fumarate promotes DNA repair through inhibition of histone H3 demethylation.In Nat Cell Biol on 2015 Sep by Yuhui Jiang, Xu Qian et al..PMID:26237645, , (2015)

PMID:26237645

Note: This product is for in vitro research use only and is not intended for use in humans or animals.