

KD-Validated Anti-FumaRate HydRatase Mouse Monoclonal Antibody

Mouse monoclonal antibody Catalog # AGI2055

Specification

KD-Validated Anti-FumaRate HydRatase Mouse Monoclonal Antibody - Product Information

Application WB, FC, ICC Primary Accession P07954

Reactivity Rat, Human, Mouse

Clonality Monoclonal Isotype Mouse IgG1

Calculated MW Predicted, 55 kDa, observed, 45 kDa KDa

Gene Name

Aliases FH; FumaRate HydRatase; Fumarase;

FumaRate HydRatase, Mitochondrial; EC 4.2.1.2 HsFH; Epididymis Secretory Sperm Binding Protein; HLRCC; MCUL1; FMRD;

LRCC; MCL

Immunogen Recombinant protein of human FH

KD-Validated Anti-FumaRate HydRatase Mouse Monoclonal Antibody - Additional Information

Gene ID **2271**

Other Names

Fumarate hydratase, mitochondrial, Fumarase {ECO:0000303|PubMed:27037871, ECO:0000303|PubMed:3828494, ECO:0000303|Ref.2}, HsFH, 4.2.1.2, FH

{ECO:0000303|PubMed:27037871, ECO:0000312|HGNC:HGNC:3700}

KD-Validated Anti-FumaRate HydRatase Mouse Monoclonal Antibody - Protein Information

Name FH {ECO:0000303|PubMed:27037871, ECO:0000312|HGNC:HGNC:3700}

Function

Catalyzes the reversible stereospecific interconversion of fumarate to L-malate (PubMed:30761759). Experiments in other species have demonstrated that specific isoforms of this protein act in defined pathways and favor one direction over the other (Probable).

Cellular Location

[Isoform Mitochondrial]: Mitochondrion

Tissue Location

Expressed in red blood cells; underexpressed in red blood cells (cytoplasm) of patients with hereditary non-spherocytic hemolytic anemia of unknown etiology.

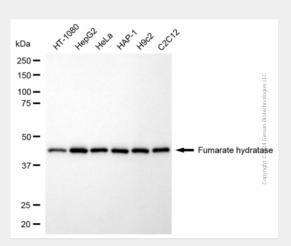


KD-Validated Anti-FumaRate HydRatase Mouse Monoclonal Antibody - Protocols

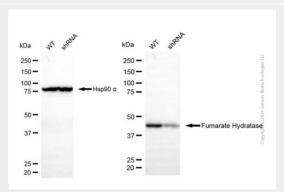
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- <u>Immunohistochemistry</u>
- Immunofluorescence
- <u>Immunoprecipitation</u>
- Flow Cytomety
- Cell Culture

KD-Validated Anti-FumaRate HydRatase Mouse Monoclonal Antibody - Images

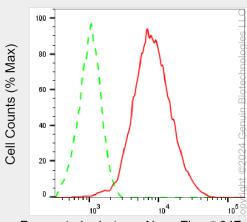


Western blotting analysis using anti-fumarate hydratase antibody (Cat#AGI2055). Total cell lysates (5 μ g) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with anti-fumarate hydratase antibody (Cat#AGI2055, 1:2,500) and HRP-conjugated goat anti-mouse secondary antibody respectively.



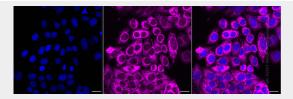
Western blotting analysis using anti-fumarate hydratase antibody (Cat #AGI2055). Fumarate hydratase expression in wild-type (WT) and fumarate hydratase (FH) shRNA knockdown (KD) HeLa cells with 5 μ g of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with anti-fumarate hydratase antibody (Cat #AGI2055, 1:2,500) and HRP-conjugated goat anti-mouse secondary antibody (Cat #101, 1:20,000) respectively.





Fumarate hydratase-Alexa Fluor® 647

Flow cytometric analysis of Fumarate hydratase expression in HepG2 cells using anti-Fumarate hydratase antibody (Cat#AGI2055, 1:2,000). Green, isotype control; red, Fumarate hydratase.



Immunocytochemical staining of HepG2 cells with anti-Fumarate hydratase associated protein antibody (Cat#AGI2055, 1:1,000). Nuclei were stained blue with DAPI; Fumarate hydratase associated protein was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and smart gain: High. Scale bar, 20 µm.