

Product Name: KD-Validated Fumarate Hydratase Mouse Monoclonal Antibody**Catalog #: KVA01085**

For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Mouse
Application	WB,FCM
Reactivity	Human,Mouse,Rat
Conjugation	Unconjugated
Modification	Unmodified
Isotype	Mouse IgG1
Clonality	Mouse mAb
Form	Liquid
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Supplied in PBS (pH 7.4) containing 50% glycerol, and 0.02% sodium azide.
Purification	Affinity purification

Application

Dilution Ratio	WB 1:400-1:2,000; FC 1:200-1:2,000
Molecular Weight	Calculated MW: 54.6kDa

Antigen Information

Gene Name	FH
Alternative Names	FH; Fumarate Hydratase; Fumarase; Fumarate Hydratase, Mitochondrial; EC 4.2.1.2 HsFH; Epididymis Secretory Sperm Binding Protein; HLRCC; MCUL1; FMRD; LRCC; MCL
Gene ID	2271.0
SwissProt ID	P07954
Immunogen	Recombinant protein of human FH

Background

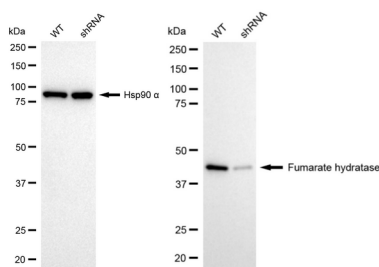
The protein encoded by this gene is an enzymatic component of the tricarboxylic acid (TCA) cycle, or Krebs cycle, and catalyzes the formation of L-malate from fumarate. It exists in both a cytosolic form and an N-terminal extended form, differing only in the translation start site used. The N-terminal 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. [provided by RefSeq, Jul 2008]

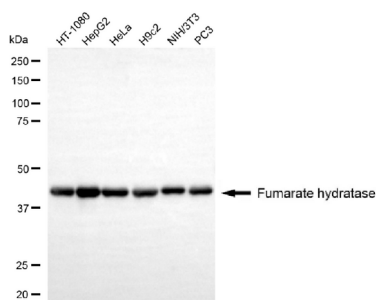
Research Area

Signal Transduction,Cancer,Metabolism

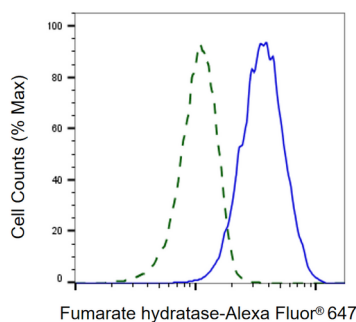
Image Data



Western blotting analysis using fumarate hydratase antibody (KVA01085). Fumarate hydratase expression in wild-type (WT) and fumarate hydratase (FH) shRNA knockdown (KD) HepG2 cells with 5 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with fumarate hydratase antibody (KVA01085, 1:2,000) and HRP-conjugated goat anti-mouse secondary antibody (APS0631, 1:10,000) respectively.



Western blotting analysis using fumarate hydratase antibody (KVA01085). Total cell lysates (5 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with fumarate hydratase antibody (KVA01085, 1:2,000) and HRP-conjugated goat anti-mouse secondary antibody (APS0631, 1:10,000) respectively.



Validation of Fumarate hydratase knockdown using flow cytometry. Wild-type(WT, Blue) and knockdown(KD, Green) HeLa cells were stained with Fumarate hydratase antibody (KVA01085, 1:2,000) and analyzed using BD flow cytometer.