

Mouse anti-Human FH/Fumarate Hydratase Monoclonal Antibody | anti-FH antibody

Anti-FH/Fumarate Hydratase Antibody, Mouse Monoclonal

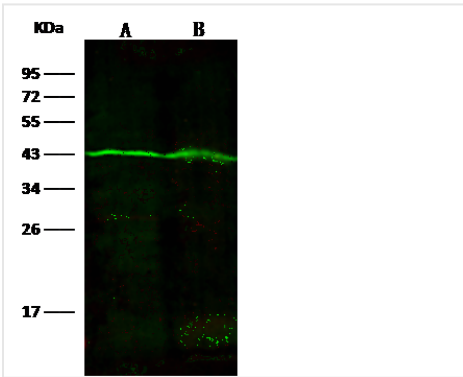
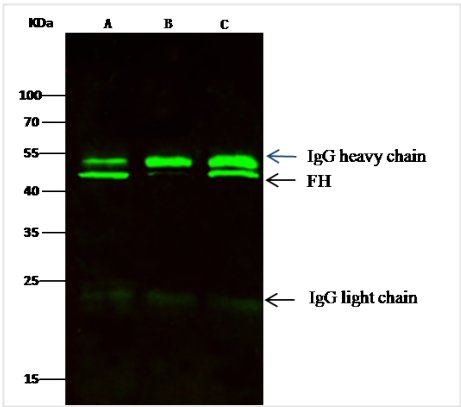
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA255520	Mouse	Human	Immunoprecipitation, ELISA, Western Blot

PRODUCT SYNONYMS

FH/Fumarate Hydratase; Monoclonal Antibody; Anti-FH/Fumarate Hydratase Antibody; Mouse Monoclonal; Fumarate Hydratase/FH Antibody; Mouse MAb; fumarate hydratase; Anti-FMRD Antibody; Anti-HLRCC Antibody; Anti-LRCC Antibody; Anti-MCL Antibody; Anti-MCUL1 Antibody; anti-FH antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human
Clonality	Monoclonal
Isotype	Mouse IgG1
Clone Number	3D5A3G7
Specificity	Human Fumarate Hydratase/FH. No cross-reactivity in ELISA with E Coli cell lysate
Purity/Purification	Protein A
Form/Format	Liquid; 0.2um filtered solution in PBS
Applicable Applications for anti-FH antibody	IP (Immunoprecipitation), ELISA, WB (Western Blot)
Immunogen	Recombinant Human Fumarate Hydratase/FH protein
Conjugation	Unconjugated
Preparation	This antibody was produced from a hybridoma resulting from the fusion of a mouse myeloma with B cells obtained from a mouse immunized with purified, recombinant Human Fumarate Hydratase/FH (rh Fumarate Hydratase/FH). The IgG fraction of the cell culture supernatant was purified by Protein A affinity chromatography.
Preparation and Storage	This antibody can be stored at 2-8 degree C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20 degree C to -80 degree C. Preservative-Free. Avoid repeated freeze-thaw cycles.



WB (Western Blot)
Anti-FH mouse monoclonal antibody at 1:500 dilutionLane A: Hela Whole Cell LysateLane B: 293T Whole Cell LysateLysates/proteins at 30 ug per lane.SecondaryGoat Anti-Mouse IgG H&L (Dylight800) at 1/15000 dilution.Developed using the Odyssey technique.Performed under reducing conditions.Predicted band size:55 kDaObserved band size:47 kDa

IP (Immunoprecipitation)
FH was immunoprecipitated using:Lane A:0.5 mg Hela Whole Cell LysateLane B:0.5 mg 293T Whole Cell LysateLane C:0.5 mg A431 Whole Cell Lysate0.5 uL anti-FH mouse monoclonal antibody and 15 ul of 50 % Protein G agarose.Primary antibody:Anti-FH mouse monoclonal antibody,at 1:250 dilutionSecondary antibody:Dylight 800-labeled antibody to Mouse IgG (H+L), at 1:7500 dilutionDeveloped using the odssey technique.Performed under reducing conditions.Predicted band size: 55 kDaObserved band size: 48 kDa

ADDITIONAL INFORMATION

Related Product Information for anti-FH antibody	Fumarate Hydratase (FH) 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. Fumarate Hydratase 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. Individuals with hemizygous germline fumarate hydratase (FH) mutations are predisposed to renal cancer. These tumors predominantly exhibit functional inactivation of the remaining wild-type allele, implicating FH inactivation as a tumor-promoting event.
References	King A, et al. (2005) Succinate dehydrogenase and fumarate hydratase: linking mitochondrial dysfunction and cancer. Oncogene. 25(34): 4675-82.Alam NA, et al. (2003) Genetic and functional analyses of FH mutations in multiple cutaneous and uterine leiomyomatosis, hereditary leiomyomatosis and renal cancer, and fumarate hydratase deficiency. Hum Mol Genet.12(11): 1241-52.Pollard PJ, et al. (2003) The TCA cycle and tumorigenesis: the examples of fumarate hydratase and succinate dehydrogenase. Ann Med. 35(8): 632-9.

NCBI AND UNIPROT INFORMATION

NCBI GI #	19743875
NCBI GeneID	2271
NCBI Accession #	NP_000134.2
NCBI GenBank Nucleotide #	NM_000143.3
UniProt Accession #	P07954
Molecular Weight	54,637 Da
NCBI Official Full Name	fumarate hydratase, mitochondrial
NCBI Official Synonym Full Names	fumarate hydratase
NCBI Official Symbol	FH
NCBI Official Synonym Symbols	MCL; LRCC; HLRCC; MCUL1
NCBI Protein Information	fumarate hydratase, mitochondrial; fumarase
UniProt Protein Name	Fumarate hydratase, mitochondrial

UniProt Gene Name	FH
UniProt Synonym Gene Names	Fumarase
UniProt Entry Name	FUMH_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://stage.aaabiotech.com/monoclonal/fh-fumarate-hydratase-antibody-clone-3d5a3g7-immunoprecipitation-western-blot-elisa/255520>