

Rabbit FH/Fumarate Hydratase Polyclonal Antibody | anti-FH antibody

Anti-FH/Fumarate Hydratase Antibody, Rabbit Polyclonal

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA255108	Rabbit	Human, Mouse, Rat Predicted to React with: Zebrafish, Pig, Cynomolgus (Species predicted to react based on 100% sequence homology)	Immunohistochemistry, Western Blot

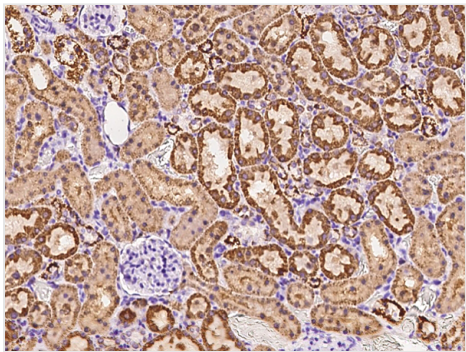
PRODUCT SYNONYMS

FH/Fumarate Hydratase; Polyclonal Antibody; Anti-FH/Fumarate Hydratase Antibody; Rabbit Polyclonal; FH Antibody; Rabbit PAb; Antigen Affinity Purified; fumarate hydratase; Anti-FMRD Antibody; Anti-HLRCC Antibody; Anti-LRCC Antibody; Anti-MCL Antibody; Anti-MCUL1 Antibody; anti-FH antibody

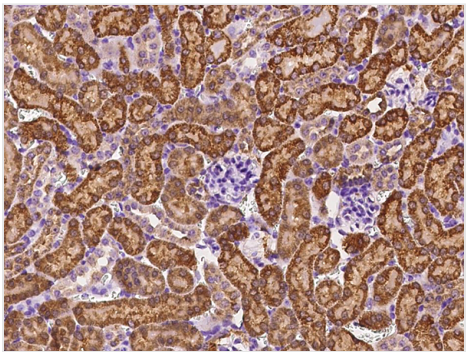
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat Predicted to React with: Zebrafish, Pig, Cynomolgus (Species predicted to react based on 100% sequence homology)
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Human FH/Fumarate Hydratase
Purity/Purification	Protein A & Antigen Affinity
Form/Format	Liquid; PBS, pH7.0 with 0.03% Proclin300
Applicable Applications for anti-FH antibody	IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthetic peptide corresponding to the center region of the Human FH
Conjugation	Unconjugated
Preparation	Produced in rabbits immunized with a synthetic peptide corresponding to the center region of the Human FH, and purified by antigen 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. Avoid repeated freeze-thaw cycles.

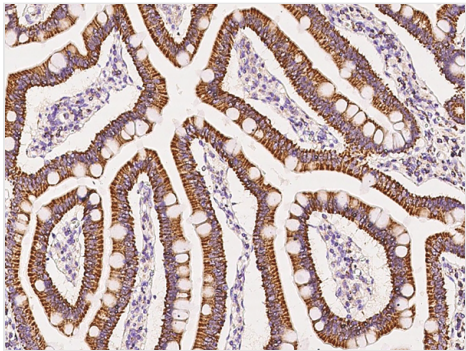
IMAGES



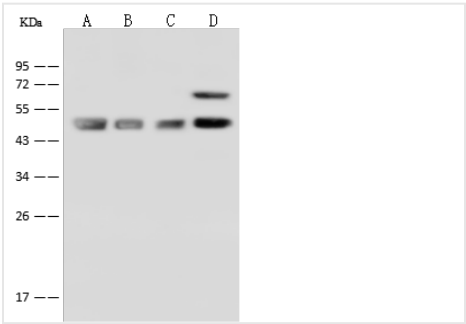
IHC (Immunohistochemistry)
Immunochemical staining FH in rat kidney with rabbit polyclonal antibody at 1:300 dilution, formalin-fixed paraffin embedded sections.



IHC (Immunohistochemistry)
Immunochemical staining FH in mouse kidney with rabbit polyclonal antibody at 1:300 dilution, formalin-fixed paraffin embedded sections.



IHC (Immunohistochemistry)
Immunochemical staining FH in human duodenum with rabbit polyclonal antibody at 1:300 dilution, formalin-fixed paraffin embedded sections.



WB (Western Blot)
Anti-FH rabbit polyclonal antibody at 1:500 dilution
Lane A: HepG2 Whole Cell Lysate
Lane B: 293 Whole Cell Lysate
Lane C: A549 Whole Cell Lysate
Lane D: Jurkat Whole Cell Lysate
Lysates/proteins at 30 ug per lane. Secondary Goat Anti-Rabbit IgG (H+L)/HRP at 1/10000 dilution. Developed using the ECL technique. Performed under reducing conditions. Predicted band size: 55 kDa Observed band size: 50 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. <i>Oncogene</i> . 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. <i>Hum Mol Genet</i> . 12(11): 1241-52. Pollard PJ, et al. (2003) The TCA cycle and tumorigenesis: the examples of fumarate hydratase and succinate dehydrogenase. <i>Ann Med</i> . 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.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/fh-fumarate-hydratase-antibody-immunohistochemistry-western-blot-elisa/255108>