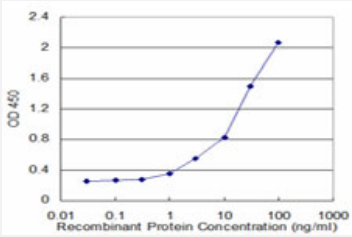
FH monoclonal antibody (M03), clone 2C5

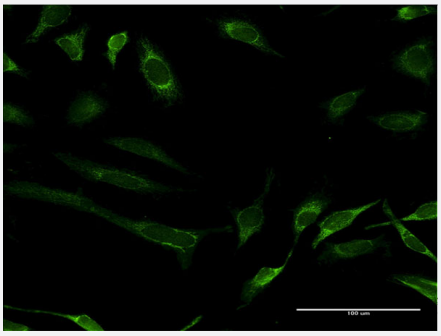
Catalog # H00002271-M03 Size 100 ug

Applications



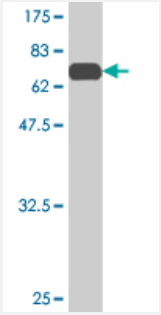
Sandwich ELISA (Recombinant protein)

Detection limit for recombinant GST tagged FH is approximately 1ng/ml as a capture antibody.



Immunofluorescence

Immunofluorescence of monoclonal antibody to FH on HeLa cell . [antibody concentration 10 ug/ml]



Western Blot detection against Immunogen (78.32 KDa) .

Specification

Product Description	Mouse monoclonal antibody raised against a full-length recombinant FH.

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Immunogen	FH (AAH03108, 33 a.a. ~ 510 a.a) full-length recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Sequence	VPSFWPPNAARMASQNSFRIEYDTFGELKVPNDKYYGAQTVRSTMNFKIGGVTERMPTPVIKAFGI LKRAAAEVNQDYGLDPKIANAIMKAADEVAEGKLNDHFPLVVWQTGSGTQTNMNVNEVISNRAIE MLGGELGSKIPVHPNDHVNKSQSSNDTFPTAMHIAAAIEVHEVLLPGLQKLHDALDAKSKEFAQIIK IGRTHTQDAVPLTLGQEFSGYVQQVKYAMTRIKAAMPRIYELAAGGTAVGTGLNTRIGFAEKVAAKV AALTGLPFVTAPNKFEALAAHDALVELSGAMNTTACSLMKIANDIRFLGSGPRSGLGELILPENEP GSSIMPGKVNPTQCEAMTMVAAQVMGNHVAVTVGGSNGHFELNVFKPMMIKNVLHSARLLGDA SVSFTENCVVGIQANTERINKLMNESLMLVTALNPHIGYDKAAKIAKTAHKNGSTLKETAIELGYLTA EQFDEWVKPKDMLGPK
Host	Mouse
Reactivity	Human
Interspecies Antigen Sequence	Mouse (96); Rat (97)
Isotype	IgG2b Kappa
Quality Control Testing	Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (78.32 KDa) .
Storage Buffer	In 1x PBS, pH 7.4
Storage Instruction	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Applications

- Western Blot (Recombinant protein)

  Protocol Download

- Sandwich ELISA (Recombinant protein)

  Detection limit for recombinant GST tagged FH is approximately 1ng/ml as a capture antibody.

  Protocol Download

- ELISA

- Immunofluorescence

  Immunofluorescence of monoclonal antibody to FH on HeLa cell . [antibody concentration 10 ug/ml]

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Gene Info — FH

Entrez GeneID	2271
GeneBank Accession#	BC003108
Protein Accession#	AAH03108
Gene Name	FH
Gene Alias	HLRCC, LRCC, MCL, MCUL1
Gene Description	fumarate hydratase
Omim ID	136850 150800 605839 606812
Gene Ontology	Hyperlink
Gene Summary	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 cytosoli c form and an N-terminal extended form, differing only in the translation start site used. The N-term inal 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 functi ons as a homotetramer. Mutations in this gene can cause fumarase deficiency and lead to progre ssive encephalopathy. [provided by RefSeq
Other Designations	OTTHUMP00000037573|fumarase|multiple hereditary cutaneous leiomyomata

Pathway

- Biosynthesis of alkaloids derived from terpenoid and polyketide
- Biosynthesis of phenylpropanoids
- Citrate cycle (TCA cycle)
- Metabolic pathways
- Pathways in cancer
- Reductive carboxylate cycle (CO2 fixation)
- Renal cell carcinoma

Disease

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- Adrenal Gland Neoplasms
- Carcinoma
- Genetic Predisposition to Disease
- Kidney Neoplasms
- Leiomyoma
- Leiomyomatosis
- Multiple Sclerosis
- Narcolepsy
- Paraganglioma
- Pheochromocytoma
- Prostatic Neoplasms
- Uterine Neoplasms

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