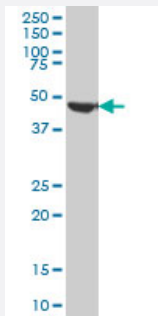


FH monoclonal antibody (M07), clone 5C12

Catalog # H00002271-M07

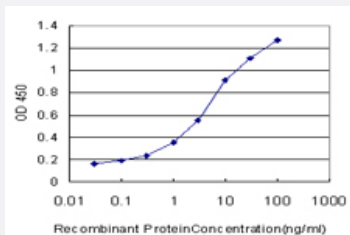
Size 100 ug

Applications



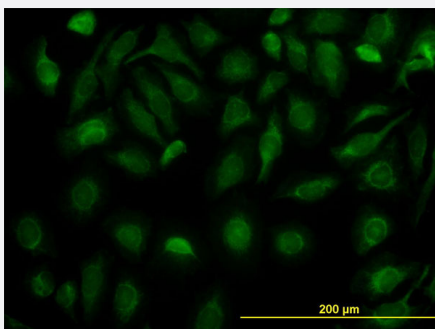
Western Blot (Cell lysate)

FH monoclonal antibody (M07), clone 5C12 Western Blot analysis of FH expression in HeLa (Cat # L013V1).



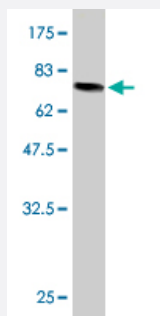
Sandwich ELISA (Recombinant protein)

Detection limit for recombinant GST tagged FH is approximately 0.1ng/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.
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 LKRAAAEVNQDYGLDPKIANAIMKAADEVAEGKLNDFPLVVWQTGSGTQTNMNVNEVISNRAIE MLGGELGSKIPVHPNDHVNKSQSSNDTFPTAMHIAAAIEVHEVLLPGLQKLHDALDAKSKEFAQIIK IGRHTQDAVPLTLGQEFSGYVQQVKYAMTRIKAAAMPRIYELAAGGTAVGTGLNTRIGFAEKVAAKV AALTGLPFVTAPNKFEALAAHDALVELSGAMNTTACSLMKIANDIRFLGSGPRSGLGELILPENEP GSSIMPGKVNPTQCEAMTMVAAQVMGNHVAVTVGGSNGHFELNVFKPMMIKNVLHSARLLGDA SVSFTENCVVGIQANTERINKLMNESLMLVTALNPHIGYDKAAKIAKTAHKNGSTLKETAIELGYLTA EQFDEWVKPKDMLGPK
Host	Mouse
Reactivity	Human
Interspecies Antigen Sequence	Mouse (96); Rat (97)
Isotype	IgG2a 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 (Cell lysate)

FH monoclonal antibody (M07), clone 5C12 Western Blot analysis of FH expression in HeLa (Cat # L013V1).

[Protocol Download](#)

- Western Blot (Recombinant protein)

[Protocol Download](#)

- Sandwich ELISA (Recombinant protein)

Detection limit for recombinant GST tagged FH is approximately 0.1ng/ml as a capture antibody.

[Protocol Download](#)

- ELISA

- Immunofluorescence

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

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 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]

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

- [Adrenal Gland Neoplasms](#)
- [Carcinoma](#)
- [Genetic Predisposition to Disease](#)
- [Kidney Neoplasms](#)
- [Leiomyoma](#)
- [Leiomyomatosis](#)
- [Multiple Sclerosis](#)
- [Narcolepsy](#)
- [Paraganglioma](#)
- [Pheochromocytoma](#)
- [Prostatic Neoplasms](#)
- [Uterine Neoplasms](#)