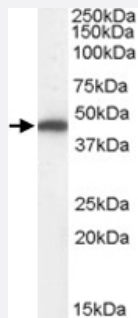


FH polyclonal antibody

Catalog # PAB7310

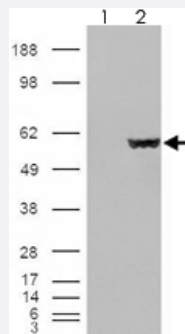
Size 100 ug

Applications



Western Blot (Tissue lysate)

FH polyclonal antibody (Cat # PAB7310) (0.01 ug/mL) staining of human kidney lysate (35 ug protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.



Western Blot (Transfected lysate)

293 overexpressing FH and probed with FH polyclonal antibody (Cat # PAB7310) (mock transfection in first lane), tested by Origene.

Specification

| | |
|----------------------|--|
| Product Description | Goat polyclonal antibody raised against synthetic peptide of FH. |
| Immunogen | A synthetic peptide corresponding to human FH. |
| Sequence | C-HPNDHVNKSQSSND |
| Host | Goat |
| Theoretical MW (kDa) | 54.6 |
| Reactivity | Human |
| Form | Liquid |

| | |
|-------------------------|---|
| Purification | Antigen affinity purification |
| Concentration | 0.5 mg/mL |
| Quality Control Testing | Antibody Reactive Against Synthetic Peptide. |
| Recommend Usage | ELISA (1:64000) Western Blot (0.01-0.03 ug/mL) The optimal working dilution should be determined by the end user. |
| Storage Buffer | In Tris saline, pH 7.3 (0.5% BSA, 0.02% sodium azide) |
| Storage Instruction | Store at -20°C. Aliquot to avoid repeated freezing and thawing. |
| Note | This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only. |

Applications

- Western Blot (Tissue lysate)

FH polyclonal antibody (Cat # PAB7310) (0.01 ug/mL) staining of human kidney lysate (35 ug protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.

- Western Blot (Transfected lysate)

293 overexpressing FH and probed with FH polyclonal antibody (Cat # PAB7310) (mock transfection in first lane), tested by Origene.

- Enzyme-linked Immunoabsorbent Assay

Gene Info — FH

| | |
|--------------------|---|
| Entrez GeneID | 2271 |
| Protein Accession# | NP_000134.2 |
| 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

Publication Reference

- [Alterations in the mitochondrial proteome of neuroblastoma cells in response to complex 1 inhibition.](#)

Burtee F, De Girolamo LA, Hargreaves AJ, Billett EE.

Journal of Proteome Research 2011 Apr; 10(4):1974.

Application: WB-Ce, Mouse, Mouse N2a neuroblastoma cells

- [Targeted inactivation of fh1 causes proliferative renal cyst development and activation of the hypoxia pathway.](#)

Pollard PJ, Spencer-Dene B, Shukla D, Howarth K, Nye E, El-Bahrawy M, Deheragoda M, Joannou M, McDonald S, Martin A, Igarashi P, Varsani-Brown S, Rosewell I, Poulson R, Maxwell P, Stamp GW, Tomlinson IP.

Cancer Cell 2007 Apr; 11(4):311.

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](#)
- [Paranglioma](#)
- [Pheochromocytoma](#)
- [Prostatic Neoplasms](#)
- [Uterine Neoplasms](#)