

Fumarase monoclonal antibody

Catalog: MB65925

Host: Mouse

Reactivity: Human, Mouse, Rat

BackGround:

Fumarate hydratase (Fumarase, FH) is canonically regarded as a mitochondrial enzyme of the tricarboxylic acid cycle that catalyzes fumarate to malate. Studies have demonstrated that deficiencies in FH can lead to hereditary leiomyomatosis and renal cell cancer or, in homozygous germline mutations, severe neurological and muscular disorders. There also exists a cytosolic fumarase isoenzyme that is involved in DNA damage repair.

Product:

Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.

Molecular Weight:

~ 50 kDa

Swiss-Prot:

P07954

Purification&Purity:

The antibody was affinity-purified from mouse antiserum by affinity-chromatography using epitope-specific immunogen and the purity is > 95% (by SDS-PAGE).

Applications:

WB (1/1000 - 1/3000), IF/ICC (1/100 - 1/200)

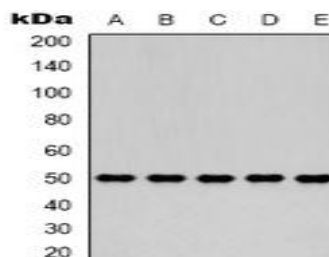
Storage&Stability:

Store at 4 °C short term. Aliquot and store at -20 °C long term. Avoid freeze-thaw cycles.

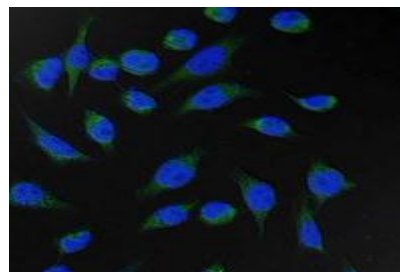
Specificity:

Recognizes endogenous levels of Fumarase protein.

DATA:



Western blot analysis of Fumarase expression in 293T (A), HepG2 (B), Hela (C), mouse brain (D), rat brain (E) whole cell lysates.



Immunofluorescent analysis of Fumarase staining in Hela cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a humidified chamber. Cells were washed with PBST and incubated with a FITC-conjugated secondary antibody (green) in PBS at room temperature in the dark. DAPI was used to stain the cell nuclei (blue).

Note:

For research use only, not for use in diagnostic procedure.

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