

Human Fumarase/FH antibody

Catalog Number: ATGA0366

PRODUCT INFORMATION

Catalog number

ATGA0366

Clone No.

AT3F6

Product type

Monoclonal Antibody

UnitProt No.

P07954

NCBI Accession No.

NP_000134

Alternative Names

Fumarate hydratase, FH, HLRCC, LRCC, MCL, MCuL1, Fumarate hydratase Fumarase, Fumarate hydratase mitochondrial, MCuL 1, Multiple hereditary cutaneous leiomyomata.

PRODUCT SPECIFICATION

Antibody Host

Mouse

Reacts With

Human

Concentration

1mg/ml (determined by BCA assay)

Formulation

Liquid in. Phosphate-Buffered Saline (pH 7.4) with 0.02% Sodium Azide, 10% glycerol

Immunogen

Recombinant human Fumarase (44-510aa) purified from E. coli

Isotype

IgG2a kappa

Purification Note

By protein-A affinity chromatography

Application

ELISA, WB, ICC/IF, FACS

Usage

The antibody has been tested by ELISA and Western blot analysis to assure specificity and reactivity. Since application varies, however, each investigation should be titrated by the reagent to obtain optimal results.

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Storage

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description

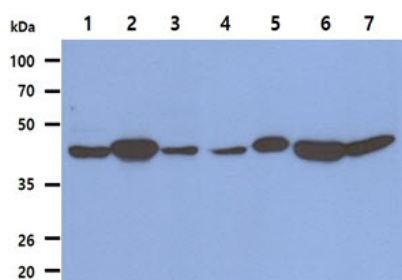
Fumarase (Fumarate hydratase) is an enzyme that catalyzes the reversible hydration/dehydration of fumarate to S-malate and is involved in the tricarboxylic acid (TCA), or Krebs cycle. This enzyme exists in both a cytosolic form and an N-terminal extended mitochondrial form. The N-terminal extended form is targeted to the mitochondrion, where the removal of the extension is the same form as in the cytoplasm. Fumarase deficiency can lead to progressive encephalopathy, cerebral atrophy and developmental delay and this enzyme also is thought to act as a tumor suppressor.

General References

Lehtonen R., et al. (2003) J Med Genet. 40(3): e19.
Toro JR., et al. (2003) Am J Hum Genet. 73(1): 95-106.

DATA

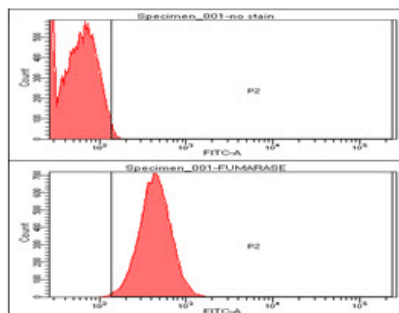
Western blot analysis (WB)



The Cell lysates (40ug) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human Fumarase antibody (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.

Lane 1. : HeLa cell lysate
Lane 2. : LNCap cell lysate
Lane 3. : A549 cell lysate
Lane 4. : HepG2 cell lysate
Lane 5. : 293T cell lysate
Lane 6. : K562 cell lysate
Lane 7. : Jurkat cell lysate

Flow cytometry (FACS)



Flow cytometry analysis of Fumarase in HeLa cell line, staining at 2-5ug for 1x10⁶ cells. The secondary antibody used goat anti-mouse IgG Alexa fluor 488 conjugate.