

Fumarase Monoclonal Antibody (8F12BB5)

Catalog NumberA21981

Product data sheet

Details		Species Reactivity	
Size	100 µg	Species reactivity	Bovine, Human, Rat
Host/Isotope	Mouse / IgG2a	Tested Applications	Dilution *
Class	Monoclonal		
Type	Antibody		
Clone	8F12BB5		
Immunogen	Purified proteins from bovine liver, bovine heart, porcine heart.	Immunohistochemistry (IHC)	Assay-dependent
Conjugate	Unconjugated	Immunoprecipitation (IP)	Assay-dependent
Form	Liquid	Immunocytochemistry (ICC/IF)	5 µg/mL
Concentration	1 mg/mL	* Suggested working dilutions are given as a guide only. It is recommended that the user titrate the product for use in their own experiment using appropriate negative and positive controls.	
Storage Conditions	4° C		

Background/Target Information

The protein encoded by this gene is an enzymatic component of the tricarboxylic acid 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.

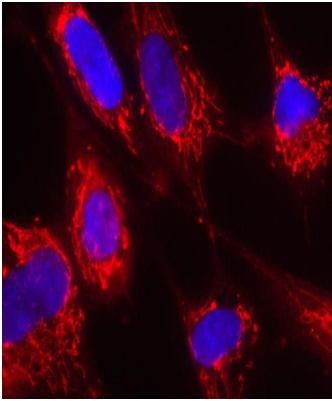
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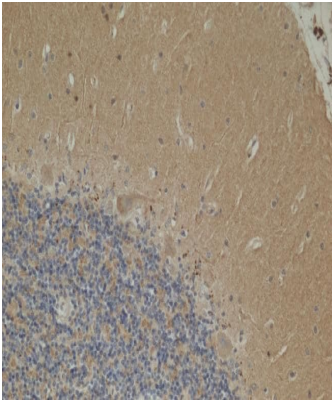
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Product Images For Fumarase Monoclonal Antibody (8F12BB5)



Fumarase Antibody (A21981) in ICC/IF

Human HDFn cells were paraformaldehyde fixed (4%, 20 min) and Triton X-100 permeabilized (0.1%, 15 min). The cells were incubated with the antibody at 5 µg/mL overnight at 4°C. Secondary antibody: (red) Alexa Fluor® 594 goat anti-mouse IgG (H+L) at a 1/1000 dilution for 1h. 10% Goat serum was used as the blocking agent for all blocking steps. DAPI was used to stain the cell nuclei (blue). Target protein locates mainly in mitochondria.



Fumarase Antibody (A21981) in IHC (P)

Immunohistochemical localization of mitochondrial and metabolic enzymes in tissue sections of normal, aged human cerebellar tissue (formalin fixed paraffin-embedded). Immunolabeling was carried out with primary antibodies diluted in TBST/4% BSA at room temperature for one hour. Immunodetection was carried out using a commercial HRP Detection Kit according to the manufacturer's instructions.

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