

Anti-SDHA Antibody

Catalog # AP96046

Product Information

Application	WB, FC, IF/IC
Primary Accession	P31040
Reactivity	Human, Mouse
Host	Mouse
Clonality	Monoclonal
Calculated MW	72692

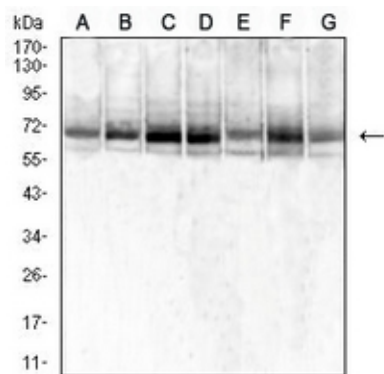
Additional Information

Gene ID	6389
Other Names	SDH2; SDHF; Succinate dehydrogenase [ubiquinone] flavoprotein subunit, mitochondrial; Flavoprotein subunit of complex II; Fp
Target/Specificity	Recombinant fusion protein of human SDHA expressed in E. Coli
Dilution	WB~~WB (1/500 - 1/1000) FC~~FC (1/100 - 1/200) IF/IC~~N/A
Format	Mouse IgG2a. Liquid in PBS, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

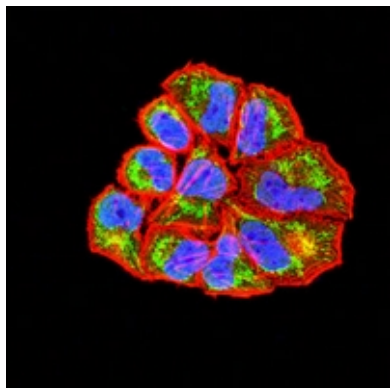
Protein Information

Name	SDHA
Synonyms	SDH2, SDHF
Function	Flavoprotein (FP) subunit of succinate dehydrogenase (SDH) that is involved in complex II of the mitochondrial electron transport chain and is responsible for transferring electrons from succinate to ubiquinone (coenzyme Q) (PubMed: 10746566 , PubMed: 24781757). SDH also oxidizes malate to the non-canonical enol form of oxaloacetate, enol- oxaloacetate (By similarity). Enol-oxaloacetate, which is a potent inhibitor of the succinate dehydrogenase activity, is further isomerized into keto-oxaloacetate (By similarity). Can act as a tumor suppressor (PubMed: 20484225).
Cellular Location	Mitochondrion inner membrane; Peripheral membrane protein; Matrix side

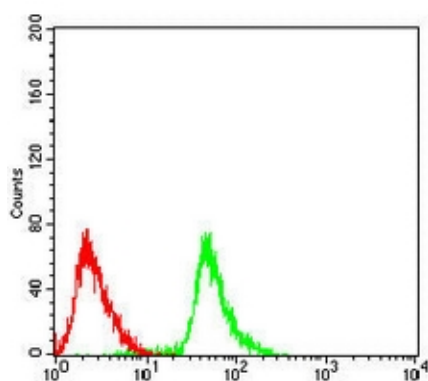
Images



Western blot analysis of SDHA expression in Jurkat (A), MCF7 (B), Hela (C), HepG2 (D), PC3 (E), .HL60 (F), NIH/3T3 (G) whole cell lysates. (Predicted band size: 73 kD; Observed band size: 70 kD)



Immunofluorescent analysis of SDHA 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 an AF488-conjugated secondary antibody (green) in PBS at room temperature in the dark. Phalloidin - AF594 was used to stain Actin filaments (red). DAPI was used to stain the cell nuclei (blue).



Flow cytometric analysis of Raji cells using Anti-SDHA Antibody (green) and negative control (red).

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.