

Anti-IDH1 Antibody

Catalog # AP95876

Product Information

Application	WB, FC, IF/IC
Primary Accession	O75874
Reactivity	Human, Mouse, Mk
Host	Mouse
Clonality	Monoclonal
Calculated MW	46659

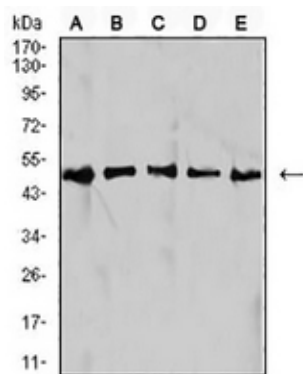
Additional Information

Gene ID	3417
Other Names	PIC, D; Isocitrate dehydrogenase [NADP] cytoplasmIC, ; IDH; CytosolIC, NADP-isocitrate dehydrogenase; IDP; NADP(+)-specifIC, IC, DH; Oxalosuccinate decarboxylase
Target/Specificity	Recombinant fusion protein of human IDH1 expressed in E. Coli
Dilution	WB~~WB (1/500 - 1/1000) FC~~FC (1/100 - 1/200) IF/IC~~N/A
Format	Mouse IgG1. 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

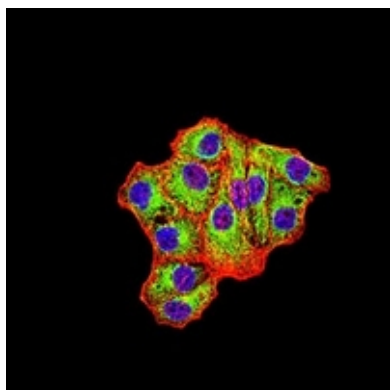
Protein Information

Name	IDH1
Synonyms	PICD
Function	Catalyzes the NADP(+)-dependent oxidative decarboxylation of isocitrate (D-threo-isocitrate) to 2-ketoglutarate (2-oxoglutarate), which is required by other enzymes such as the phytanoyl-CoA dioxygenase (PubMed: 10521434 , PubMed: 19935646). Plays a critical role in the generation of NADPH, an important cofactor in many biosynthesis pathways (PubMed: 10521434). May act as a corneal epithelial crystallin and may be involved in maintaining corneal epithelial transparency (By similarity).
Cellular Location	Cytoplasm, cytosol. Peroxisome

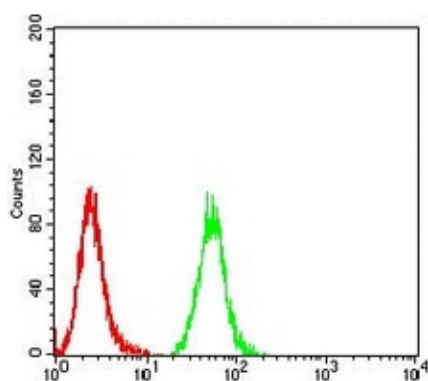
Images



Western blot analysis of IDH1 expression in HepG2 (A), NIH/3T3 (B), C2C12 (C), COS7 (D), SW480 (E) whole cell lysates. (Predicted band size: 47 kD; Observed band size: 49 kD)



Immunofluorescent analysis of IDH1 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 HeLa cells using Anti-IDH1 Antibody (green) and negative control (red).

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