

IDH2(R172G)

Catalog Number: 26321

Gene Symbol: IDH2; D2HGA2; ICD-M; IDH; IDHM; IDP; IDPM; mNADP-IDH

Description: Anti-IDH2 (R172G) Mouse Monoclonal Antibody

Background: Isocitrate dehydrogenase (IDH) catalyze the oxidative decarboxylation of isocitrate to 2-oxoglutarate. The isocitrate and isopropylmalate dehydrogenases family has three members, IDH1, IDH2 and IDH3. IDH2 plays a role in intermediary metabolism and energy production. Defects in IDH2 are the cause of D-2-hydroxyglutaric aciduria type 2 (D2HGA2). Somatic mosaic mutations of this protein have also been found associated to Ollier disease and Maffucci syndrome, and R172G IDH2 mutations do exist in diffusely infiltrative gliomas.

Immunogen: A synthetic peptide from the internal region of IDH2 which includes the mutation of R172G, human origin.

Tested Applications: ELISA, WB, IF, IHC

Recommended Dilutions:

ELISA:	1:1000-1:5000
WB:	1:500-1:1000
IF:	1:50-1:100
IHC:	1:50-1:100

Concentration: 1 mg/ml

Host: Mouse

Clonality: Monoclonal

Isotype: IgG

Purity: Purified from ascites

Format: Liquid

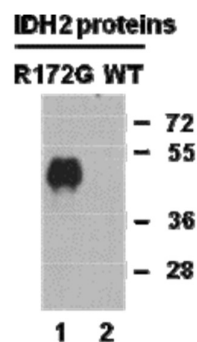
Preservative: No

Constituents: PBS (without Mg²⁺ and Ca²⁺), pH7.4, 150 mM NaCl, 50% glycerol

Species Reactivity: Recognizes R172G mutant, but not wild-type IDH2 of vertebrates.

Storage Conditions: Store at -20°C. Avoid repeated freezing and thawing

Western blot:



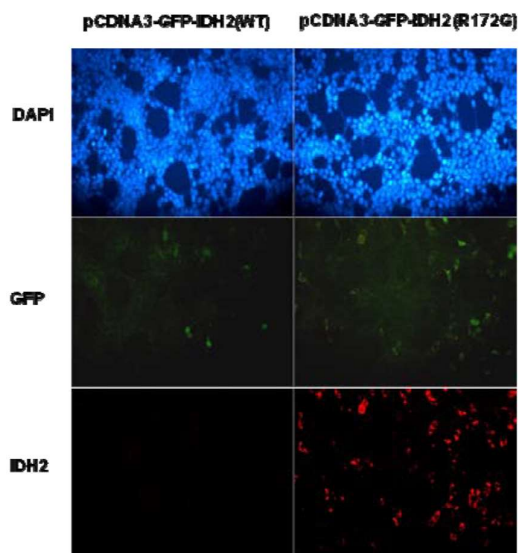
WB: Anti-IDH2(R172G) mAb

Western blot analysis of recombinant IDH2(R172G) and wildtype proteins.

Purified His-tagged IDH2 (R172G) (lane 2) and wild type protein (lane 1) were blotted with anti-IDH2 (R172G) monoclonal antibody (Cat. # 26163).

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Immunofluorescence:



Immunofluorescence of cells expressing IDH2 proteins with anti-IDH2 (R172G) antibody.

HEK293T cells were transfected with pCDNA3-GFP-IDH2 (WT) plasmid (left column) or pCDNA3-GFP-IDH2 (R172G) plasmid (right column), then fixed and stained with anti-IDH2 (R172G) monoclonal antibody (Cat. # 26321).

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