

IDH2(R172S)

Catalog Number: 26408

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

Description: Anti-IDH2(R172S) Mouse Monoclonal Antibody

Background: Isocitrate dehydrogenase (IDH) catalyzes the oxidative decarboxylation of isocitrate to 2-oxoglutarate. The isocitrate and isopropylmalate dehydrogenase 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 R172S IDH2 mutations do exist in diffusely infiltrative gliomas.

Immunogen: A synthetic peptide from the internal region of IDH2, which includes the mutation of R172S, human origin

Tested Applications: ELISA, WB, IF, IHC

Recommended Dilutions:

ELISA:	1:1000-1:5000
WB:	1:1000-1:5000
IF:	1:50-1:200
IHC:	1:50-1:200

Concentration: 1 mg/ml

Host: Mouse

Clonality: Monoclonal

Isotype: IgG

Purity: Purified from ascites

Format: Liquid

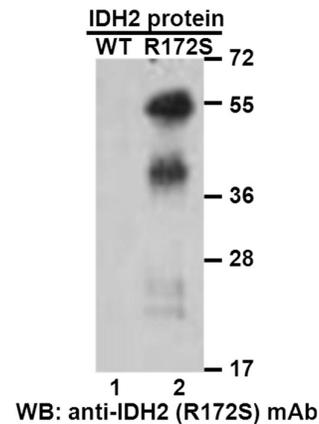
Preservative: No

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

Species Reactivity: Recognizes R172S mutant, but not wild-type IDH2 of vertebrates.

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

Western blot:

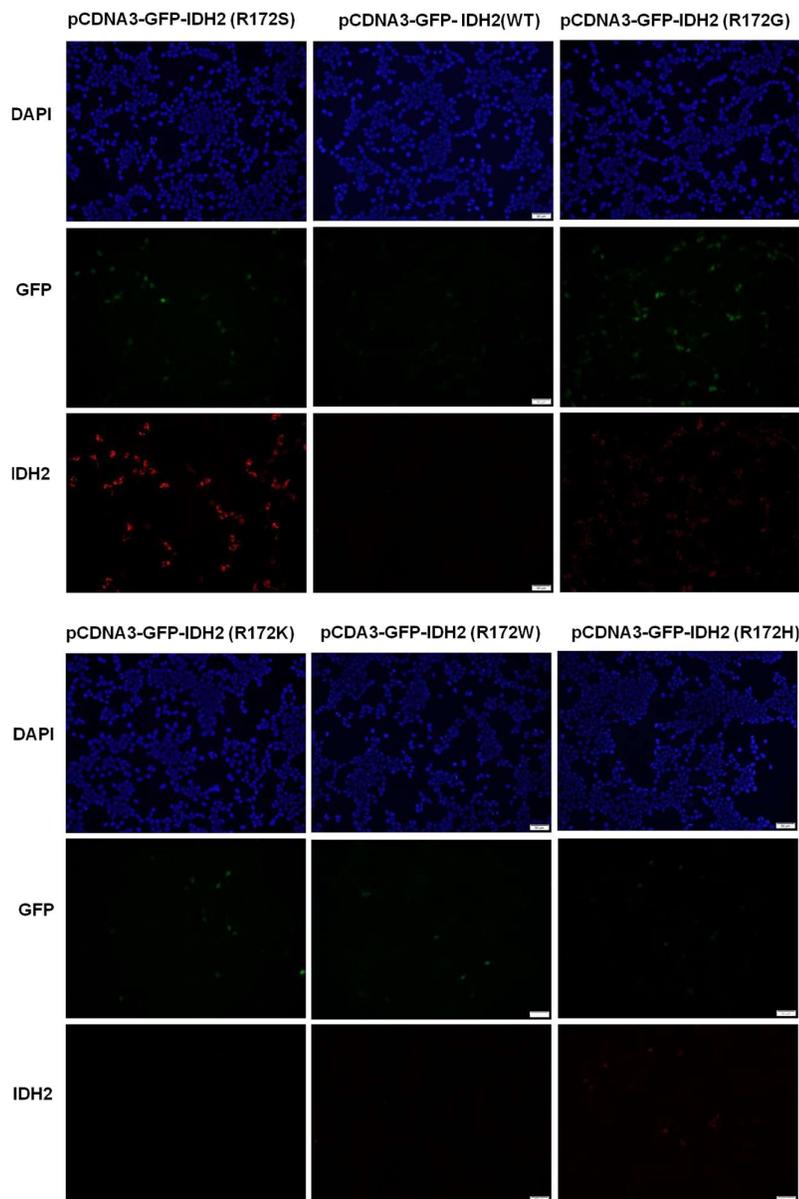


Western blot analysis of recombinant IDH2(R172S) and wild type proteins.

Purified His-tagged IDH2 (R172S) (lane 1) and corresponding wild type IDH2 protein (lane 2) were blotted with anti-IDH2(R172S) monoclonal antibody (Cat. # 26408).

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Immunofluorescence:



Immunofluorescence of cells expressing IDH2 proteins with anti-IDH2 (R172S) antibody.

HEK293T cells were transfected with pCDNA3-GFP-IDH2 (R172S) plasmid, pCDNA3-GFP-IDH2(WT) plasmid, pCDNA3-GFP-IDH2 (R172G) plasmid, pCDNA3-GFP-IDH2 (R172K) plasmid, pCDNA3-GFP-IDH2 (R172W) plasmid or pCDNA3-GFP-IDH2 (R172H) plasmid, then fixed and stained with anti-IDH2 (R172S) monoclonal antibody (Cat. # 26408).

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