

Product Description

IDH2(R172H)

Catalog Number: 26084

Gene Symbol: IDH2(R172H)

Description: Anti-IDH2(R172H) 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 R172H IDH2 mutations do exist in diffusely infiltrative gliomas.

Immunogen: A synthetic peptide from the internal region of IDH2, which includes the mutation of R172H, human origin.

Tested Applications: ELISA, WB, IF, IHC

Recommended Dilutions:

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

Concentration: 1 mg/ml

Host: Mouse

Clonality: Monoclonal

Purity: Purified from ascites

Format: Liquid

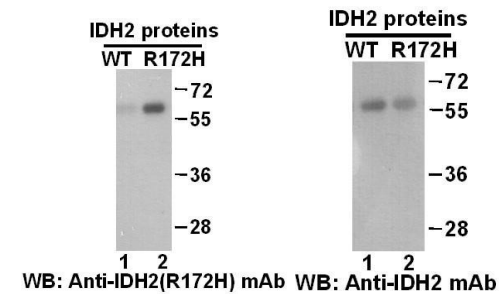
Preservative: no

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

Species Reactivity: Anti-IDH2(R172H) antibody recognizes IDH2(R172H) of vertebrates.

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

Western blot:

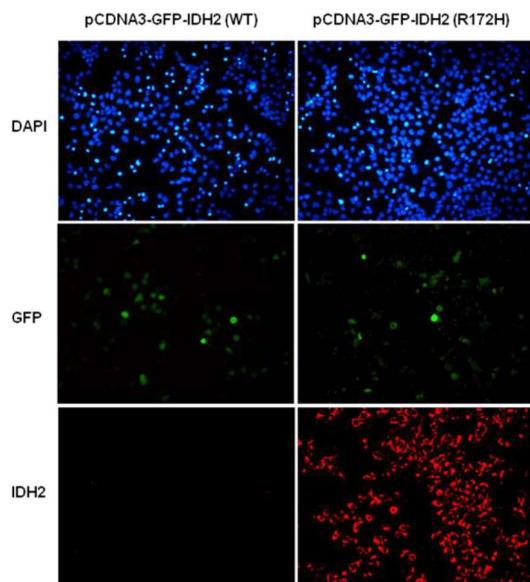


Western blot analysis of recombinant IDH2(R172H) and wildtype proteins.

Purified His-tagged IDH2(R172H) protein (Cat. # 10201) and wildtype protein (Cat. # 10200) were blotted with anti-IDH2(R172H) monoclonal antibody (Cat. # 26084) (left panel). Protein loading was blotted with anti-IDH2 monoclonal antibody (right panel).

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Immunofluorescence:



Immunofluorescence of cells expressing IDH2 proteins with anti-IDH2 (R172H) antibody.

HEK293T cells were transfected with pCDNA3-GFP-IDH2 (WT) plasmid (left column) or pCDNA3-GFP-IDH2 (R172H) plasmid (right column), then fixed and stained with anti-IDH2 (R172H) monoclonal antibody (Cat. # 26084).

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