IDH2(R172H)

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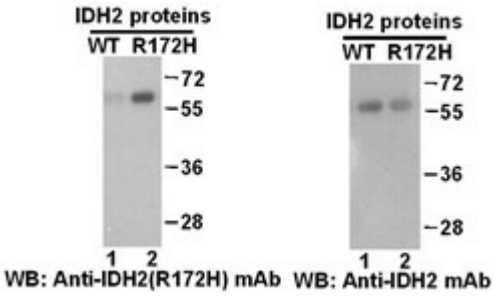
Cat. #:: 26084
Gene Symbol: IDH2
Description: Anti-IDH2(R172H) Mouse Monoclonal Antibody
Background: Isocitrate dehydrogenase (IDH) catalyzes the oxidative decarboxylation of isocitrate to 2-oxoglutarate. Mutations of Arg-172 in IDH2 to Cys, His, Leu or Ser abolish magnesium binding and the conversion of isocitrate to alpha-ketoglutarate. Instead, alpha-ketoglutarate is converted to R-2-hydroxyglutarate. Elevated levels of R-2-hydroxyglutarate are correlated with an elevated risk of malignant brain tumors.
Immunogen: A synthetic peptide from the internal region of human IDH2 which includes the mutation of R172H.
Applications: ELISA, WB, IHC, IF
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 Species: Mouse
Format: Liquid
Clonality: Monoclonal
Isotype: IgG
Purity: Purified from ascites
Preservative: No
Constituents: PBS (without Mg^{2+} and Ca^{2+}), pH 7.4, 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.

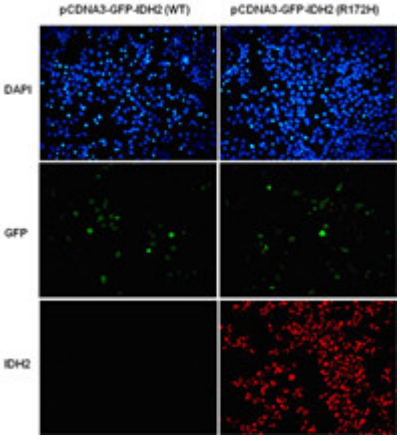
Western blot:



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

Purified his-tagged IDH2(R172H) protein (Cat. # 10201) and wild type IDH2 protein (Cat. # 10200) were blotted with anti-IDH2(R172H) monoclonal antibody (Cat. # 26084) (left panel). Proteins loading were blotted with anti-IDH2 monoclonal antibody (right panel).

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).