

IDH1(R132H)

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Cat. #: 26081

Gene Symbol: IDH1

Description: Anti-IDH1(R132H) Mouse Monoclonal Antibody

Background: Isocitrate dehydrogenase (IDH) catalyzes the oxidative decarboxylation of isocitrate to 2-oxoglutarate. Mutations of Arg-132 in IDH 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: Recombinant protein of human IDH1 which includes the mutation of R132H.

Applications: ELISA, WB, IHC, IF

Recommended Dilutions:

ELISA: 1:1000-1:5000

WB: 1:100-1:1000

IF: 1:50-1:100

IHC: 1:50-1:100

Concentration: 1 mg/ml

Host Species: Mouse

Format: Liquid

Clonality: Monoclonal

Isotype: IgG

Purity: Purified from ascites

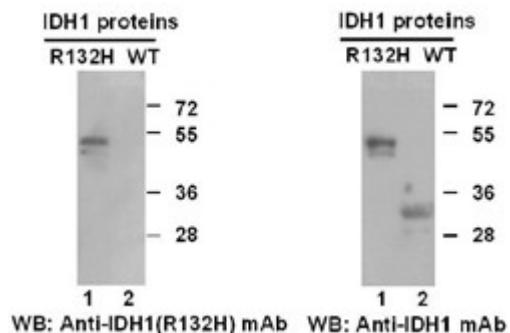
Preservative: No

Constituents: PBS (without Mg²⁺ and Ca²⁺), pH 7.4, 150 mM NaCl, 50% glycerol

Species Reactivity: Anti-IDH1(R132H) antibody recognizes IDH1(R132H) of vertebrates.

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

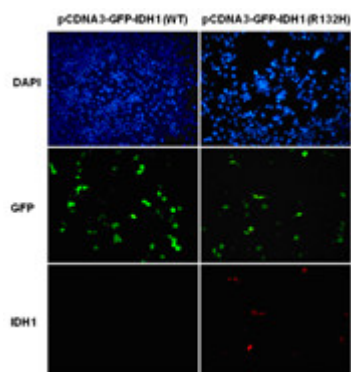
Western blot:



Western blot analysis of recombinant IDH1(R132H) and wild type proteins.

Purified His-tagged IDH1(R132H) protein (Cat.#10199) and wild type protein (amino acid 1-240) (Cat.#10198) were blotted with anti-IDH1(R132H) mouse antibody (Cat.# 26081) (Left panel) or with anti-IDH1 mouse antibody (Cat. #26136 right panel).

Immunofluorescence:



Immunofluorescence of cells expressing IDH1 proteins with anti-IDH1(R132H) antibody.

HEK293T cells were transfected with pCDNA3-GFP-IDH1 (WT) plasmid (left column) or pCDNA3-GFP-IDH1(R132H) plasmid (right column), then fixed and stained with Anti-IDH1(R132H) monoclonal antibody (Cat. #26081).