

IDH1(R132H)**IDH1(R132H)****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:**

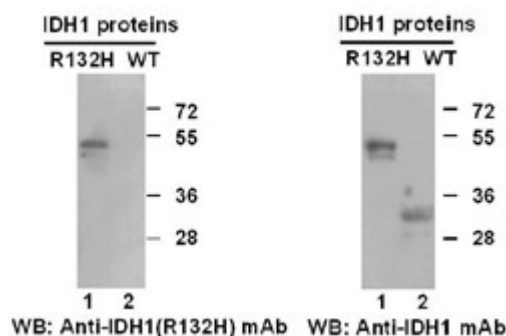
ELISA: 1:1000–1:5000

WB: 1:100–1:1000

IF: 1:50–1:100

IHC: 1:50–1:100

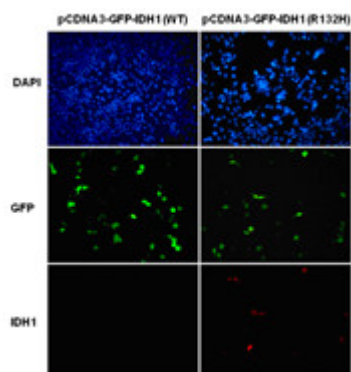
Concentration: 1 mg/ml**Host Species:** Mouse**Format:** Liquid**Clonality:** Monoclonal**Isotype:** IgG**Purity:** Purified from ascites**Preservative:** No**Constituents:** PBS (without Mg^{2+} and Ca^{2+}), pH 7.4, 150 mM NaCl, 50% glycerol**Species Reactivity:** Anti-IDH1(R132H) antibody recognizes IDH1(R132H) of vertebrates.**Storage Conditions:** Store at $-20^{\circ}C$. 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).