

## **Product Description**

Pioneering GTPase and Oncogene Product Development since 2010

#### IDH1(R132P)

### IDH1(R132P)

Cat. #: 26406

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

**Description:** Anti-IDH1(R132P) Mouse Monoclonal Antibody

**Background:** Isocitrate dehydrogenases (IDH) catalyze the oxidative decarboxylation of isocitrate to 2-oxoglutarate. Mutations affecting Arg-132 are tissue-specific, and suggest that this residue plays a unique role in the development of high-grade gliomas. Mutations of Arg-132 to Cys, His, Leu or Ser abolish magnesium binding and abolish 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 IDH1 which includes the mutation of R132P, human origin.

Applications: ELISA, WB, IF, IHC

**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

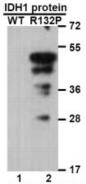
**Constituents:** PBS (without Mg<sup>2+</sup> and Ca<sup>2+</sup>), pH 7.4, 150 mM NaCl, 50% glycerol **Species Reactivity:** recognizes R132P mutant, but not wild type IDH2 of vertebrates.

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



## **Product Description**

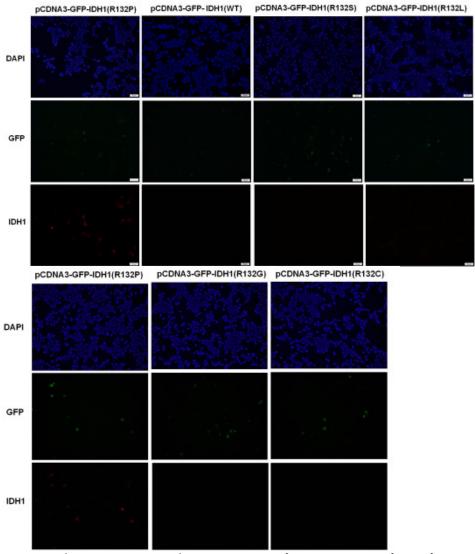
Pioneering GTPase and Oncogene Product Development since 2010



Western blot: WB: anti-IDH1 (R132P) mAb

Western blot analysis of recombinant IDH1(R132P) and wild type proteins. Purified Histagged IDH1(R132P) (lane 1) and corresponding wild type IDH1 protein (lane 2) were blotted with Anti-IDH1(R132P) monoclonal antibody (Cat.

### #26406).Immunofluorescence:



Immunofluorescence of cells expressing IDH1 proteins with Anti-IDH1(R132P) antibody. HEK293T cells were transfected with pCDNA3-GFP-IDH1(R132P) plasmid, pCDNA3-GFP-IDH1 (WT) plasmid, pCDNA3-GFP-IDH1(R132S) plasmid, pCDNA3-GFP-IDH1(R132L) plasmid, pCDNA3-GFP-IDH1(R132G) plasmid or pCDNA3-GFP-IDH1(R132C) plasmid, then fixed and stained with Anti-IDH1(R132P) monoclonal antibody (Cat. #26406)



# **Product Description**

Pioneering GTPase and Oncogene Product Development since 2010