

## IDH1(R132S)

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货号: 26160

基因符号: IDH1; IDCD; IDH; IDP; IDPC; PICD

描述: IDH1(R132S) 小鼠单克隆抗体

背景: Isocitrate dehydrogenases 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.

免疫原: A synthetic peptide from the internal region of IDH1 which includes the mutation of R132S, human origin.

经过测试的应用: ELISA, WB, IF, IHC

推荐稀释度:

ELISA: 1:1000-1:5000

WB: 1:500-1:1000

IF: 1:50-1:100

IHC: 1:50-1:100

浓度: 1 mg/ml

种属反应性: Mouse

形式: Liquid

克隆性: Monoclonal

亚型: IgG

纯化: Purified from ascites

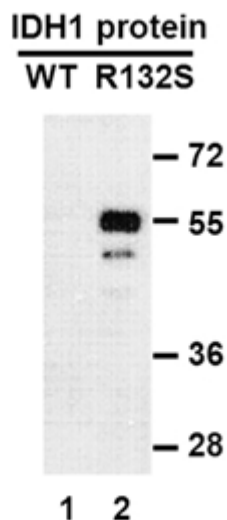
**Preservative:** No

成分: PBS (without  $Mg^{2+}$  and  $Ca^{2+}$ ), pH 7.4, 150 mM NaCl, 50% glycerol

种属反应性: Recognizes IDH1(R132S) mutated protein, but not wild type IDH1 of vertebrates.

储存条件: Store at  $-20^{\circ}C$ . Avoid repeated freezing and thawing

## Western blot:

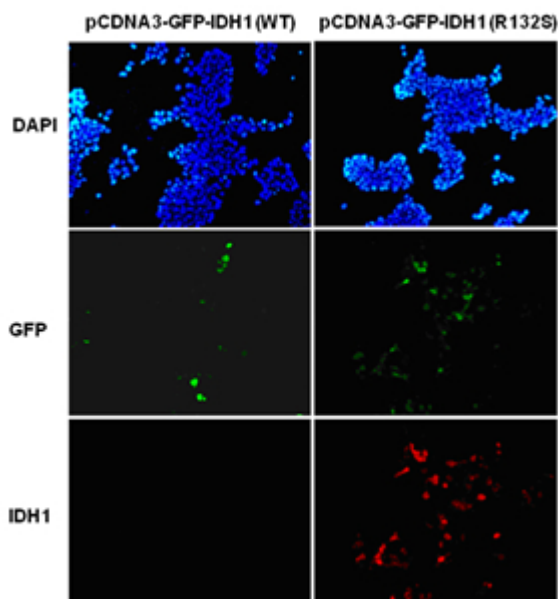


WB: anti-IDH1(R132S) mAb

## Western blot analysis of recombinant IDH1(R132S) and wild type proteins.

Purified His-tagged IDH1(R132S) protein (lane 2) and wild type protein (lane 1) were blotted with IDH1(R132S) mouse antibody (货号26160).

## Immunofluorescence:



## Immunofluorescence of cells expressing IDH1 proteins with IDH1(R132S) antibody.

HEK293T cells were transfected with pCDNA3-GFP-IDH1 (WT) plasmid (left column) or pCDNA3-GFP-IDH1(R132S) plasmid (right column), then fixed and stained with IDH1(R132S) monoclonal antibody (货号26160).