

## **Product Description**

Pioneering GTPase and Oncogene Product Development since 2010

#### IDH2(R172K)

### IDH2(R172K)

Cat. #: 26163

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

**Description:** Anti-IDH2(R172K) Mouse Monoclonal Antibody

**Background:** Isocitrate dehydrogenase (IDH) catalyze the oxidative decarboxylation of isocitrate to 2-oxoglutarate. The isocitrate and isopropylmalate dehydrogenases family has three members, IDH1, IDH2 and IDH3. IDH2 plays a role in intermediary metabolism and energy production. Defects in IDH2 are the cause of D-2-hydroxyglutaric aciduria type 2 (D2HGA2). Somatic mosaic mutations of this protein have also been found associated to Ollier disease and Maffucci syndrome, and R172K IDH2 mutations do exist in diffusely infiltrative gliomas.

**Immunogen:** A synthetic peptide from the internal region of IDH2 which includes the mutation of R172K, human origin.

**Applications:** ELISA, WB, IHC **Recommended Dilutions:** 

ELISA: 1:1000-1:5000 WB: 1:100-1:1000 IHC: 1:50-1:100 IHC: 1:10-1:100

Concentration: 1 mg/ml Host Species: Mouse

Format: Liquid

**Clonality:** Monoclonal

Isotype:

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 R172K mutant, but not wild type IDH2 of

vertebrates.

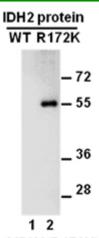
Storage Conditions: Store at -20°C. Avoid repeated freezing and thawing

#### **Western blot:**



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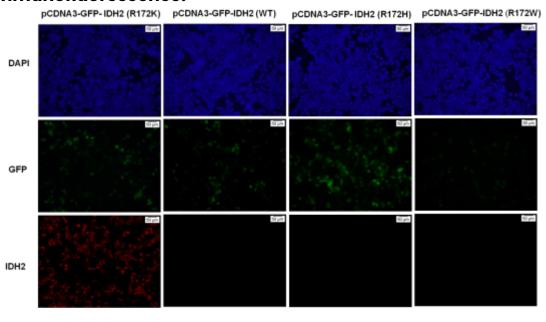


WB: anti-IDH2(R172K) mAb

### Western blot analysis of recombinant IDH2(R172K) and wild type proteins.

Purified His-tagged IDH2(R172K) (lane 2) and wild type protein (lane 1) were blotted with Anti-IDH2(R172K) monoclonal antibody (Cat. #26163).

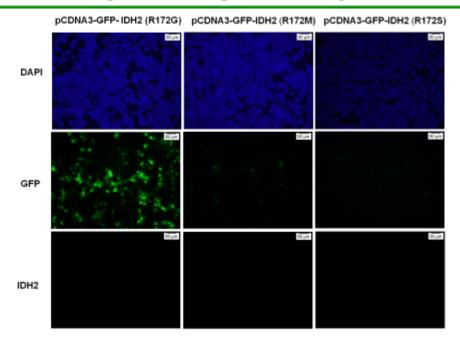
#### Immunofluorescence:





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Immunofluorescence of cells expressing IDH2 proteins with Anti-IDH2(R172K) antibody.

HEK293T cells were transfected with pCDNA3-GFP- IDH2(R172K) plasmid, pCDNA3-GFP- IDH2 (WT) plasmid, pCDNA3-GFP- IDH2 (R172H) plasmid, pCDNA3-GFP- IDH2 (R172W) plasmid, pCDNA3-GFP- IDH2 (R172G) plasmid,pCDNA3-GFP- IDH2 (R172M) plasmid or pCDNA3-GFP- IDH2 (R172S) plasmid, then fixed and stained with anti-IDH2(R172K) monoclonal antibody (Cat. #26163).