

## IDH2 (R172K)

**Catalog Number:** 26163

**Gene Symbol:** IDH2 (R172K)

**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.

**Tested applications:** ELISA, WB, IHC

**Recommended dilutions:**

ELISA: 1:1000-1:5000

WB: 1:100-1:1000

IHC: 1:10-1:100

**Concentration:** 1 mg/ml

**Host:** Mouse

**Clonality:** Monoclonal

**Purity:** Purified from ascites

**Format:** Liquid

**Storage buffer:**

Preservative: no

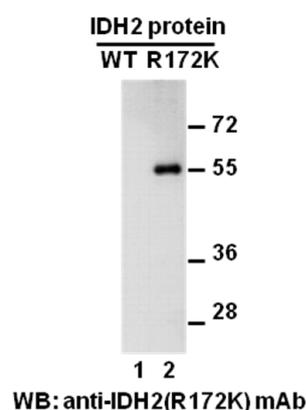
Constituents: PBS (without Mg<sup>2+</sup> and Ca<sup>2+</sup>), pH 7.4, 150 mM NaCl, 50% glycerol

**Species Reactivity:** recognizes R172K mutant, but not wild-type IDH2 of vertebrates.

**Storage Conditions:** Store at -20°C. Avoid

freeze / thaw cycles.

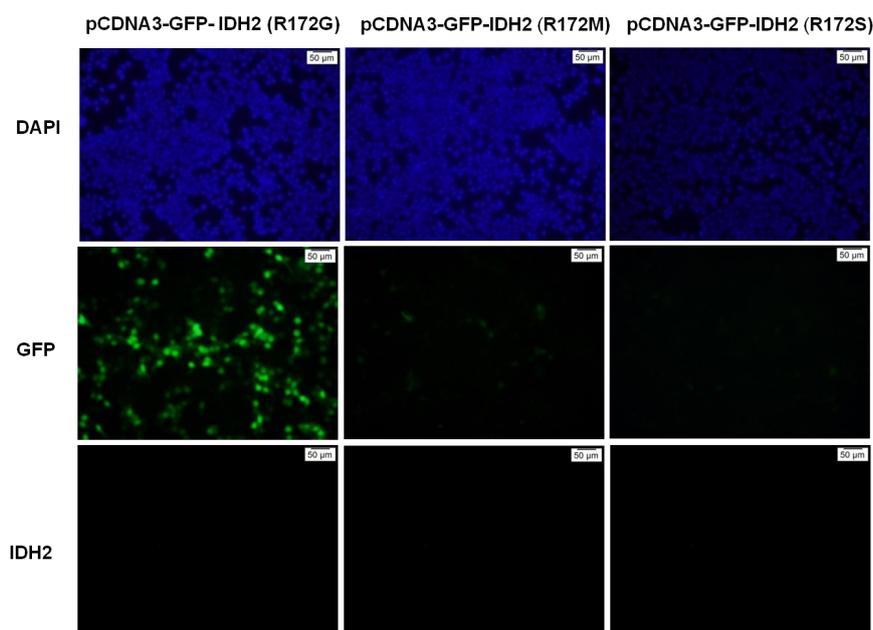
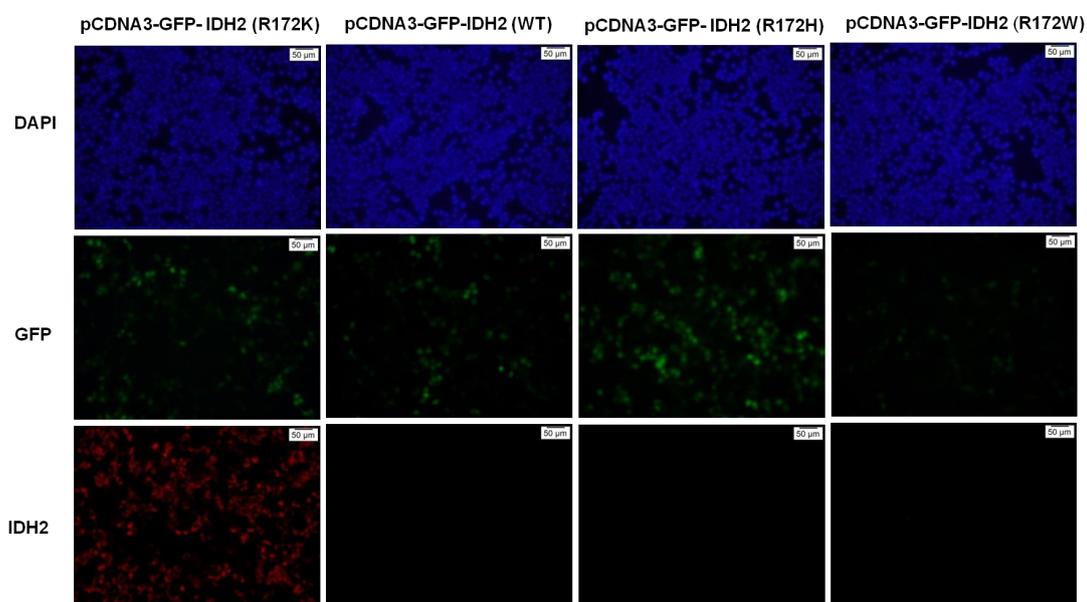
**Western blot:**



**Western blot analysis of recombinant IDH2 (R172K) and wildtype proteins.** Purified His-tagged IDH2 (R172K) (lane 2) and wildtype protein (lane 1) were blotted with anti-IDH2 (R172K) monoclonal antibody (Cat. #26163).

For research use only. Not for diagnostic or therapeutic applications.

## Immunofluorescence:



### 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)

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