

## IDH2 (R172S)

**Catalog Number:** 26408

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

**Description:** Anti-IDH2 (R172S) 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 R172S IDH2 mutations do exist in diffusely infiltrative gliomas.

**Immunogen:** A synthetic peptide from the internal region of IDH2 which includes the mutation of R172S, human origin.

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

**Recommended dilutions:**

ELISA: 1:1000-1:5000

WB: 1:100-1:1000

IHC: 1:50-1:100

**Concentration:** 1 mg/ml

**Host:** Mouse

**Clonality:** Monoclonal

**Purity:** Purified from ascites

**Format:** Liquid

**Storage buffer:**

Preservative: no

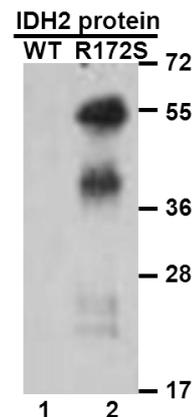
Constituents: PBS (without Mg<sup>2+</sup> and Ca<sup>2+</sup>), pH 7.4, 150 mM NaCl, 50% glycerol

**Species Reactivity:** recognizes R172S mutant, but not wild-type IDH2 of vertebrates.

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

freeze / thaw cycles.

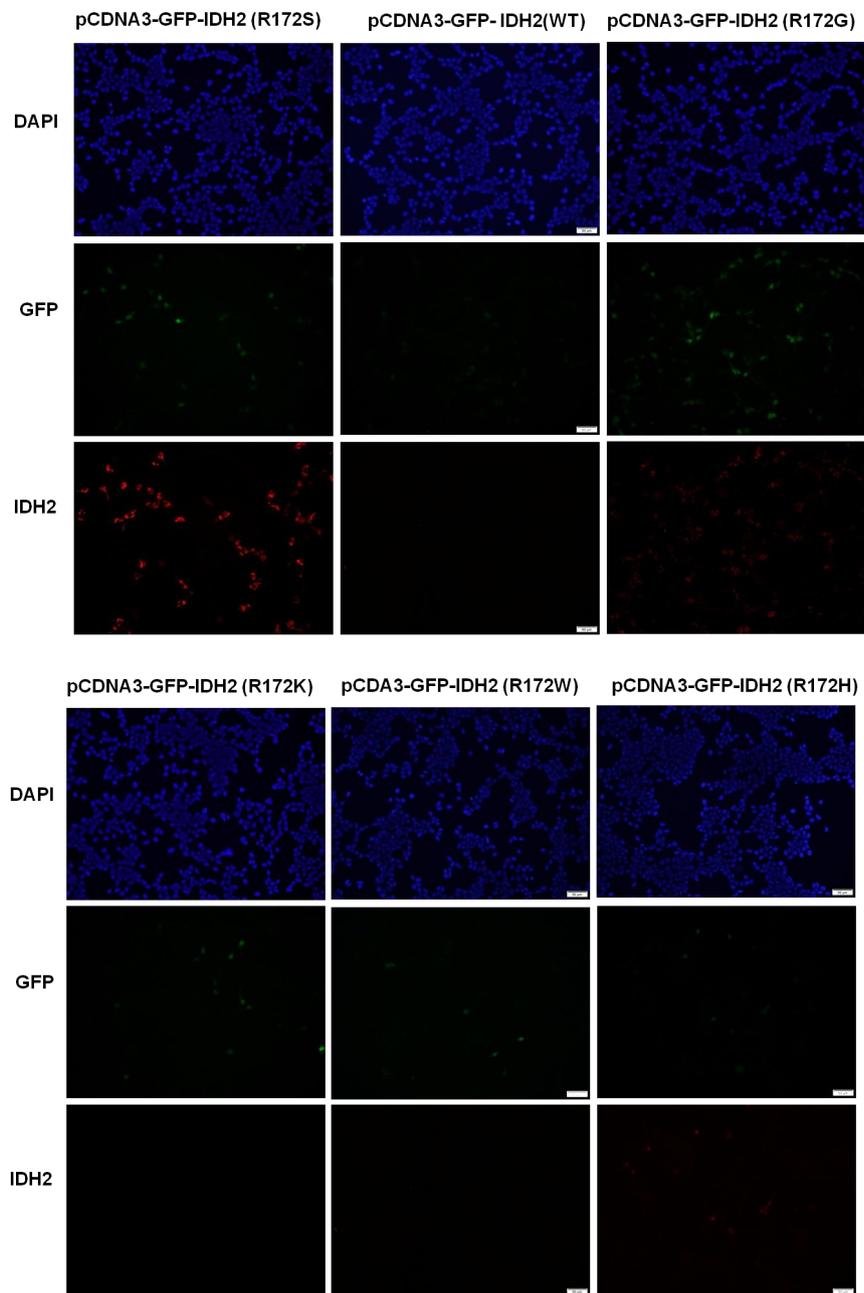
**Western blot:**



WB: anti-IDH2 (R172S) mAb

Western blot analysis of recombinant IDH2 (R172S) and wildtype proteins. Purified His-tagged IDH2 (R172S) (lane 1) and corresponding wild-type IDH2 protein (lane 2) were blotted with anti-IDH2 (R172S) monoclonal antibody (Cat. #26408).

**Immunofluorescence:**



**Immunofluorescence of cells expressing IDH2 proteins with anti-IDH2 (R172S) antibody.**

HEK293T cells were transfected with pCDNA3-GFP-IDH2 (R172S) plasmid, pCDNA3-GFP-IDH2 (WT) plasmid, pCDNA3-GFP-IDH2 (R172G) plasmid, pCDNA3-GFP-IDH2 (R172K) plasmid, pCDNA3-GFP-IDH2 (R172W) plasmid or pCDNA3-GFP-IDH2 (R172H) plasmid, then fixed and stained with anti-IDH2 (R172S) monoclonal antibody (Cat. #26408)