

## IDH2 (R172W)

**Catalog Number:** 26164

**Gene Symbol:** IDH2 (R172W)

**Description:** Anti-IDH2 (R172W) 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 R172W IDH2 mutations do exist in diffusely infiltrative gliomas.

**Immunogen:** A synthetic peptide from the internal region of IDH2 which includes the mutation of R172W, 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

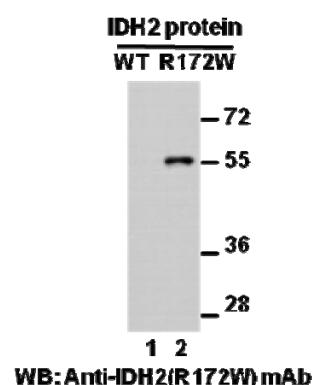
Constituents: PBS (without Mg<sup>2+</sup> and Ca<sup>2+</sup>), pH 7.4, 150 mM NaCl, 50% glycerol

**Species Reactivity:** recognizes IDH1(R172W) of vertebrates.

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

freeze / thaw cycles.

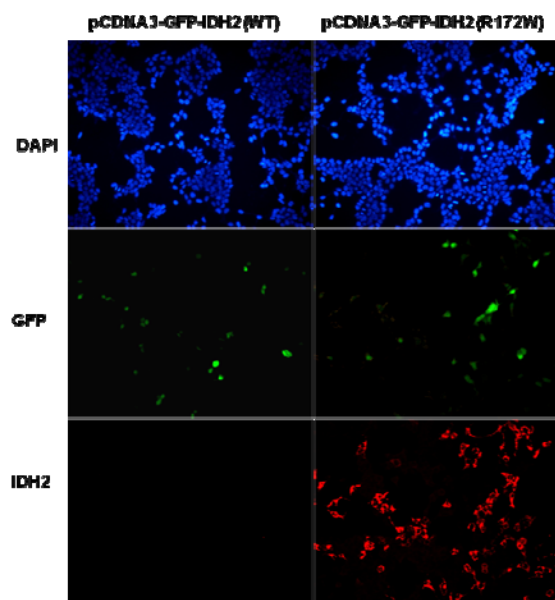
**Western blot:**



Western blot analysis of recombinant IDH2 (R172W) and wildtype proteins. Purified His-tagged IDH2 (R172W) (lane 2) and wildtype protein (lane 1) were blotted with anti-IDH2 (R172W) monoclonal antibody (Cat. #26164).

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## Immunofluorescence:



### Immunofluorescence of cells expressing IDH2 proteins with anti-IDH2 (R172W) antibody.

HEK293T cells were transfected with pCDNA3-GFP-IDH2 (WT) plasmid (left column) or pCDNA3-GFP-IDH2 (R172W) plasmid (right column), then fixed and stained with anti-IDH2 (R172W) monoclonal antibody (Cat. #26164).

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