Wuhan NewEast Biosciences Co.Ltd

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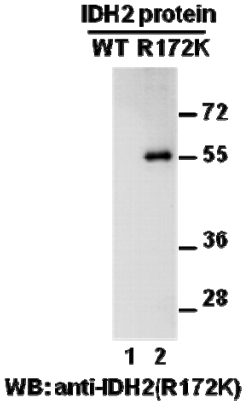
# IDH2 (R172K)

**Catalog Number:** 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.
**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 $Mg^{2+}$ and $Ca^{2+}$), 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).

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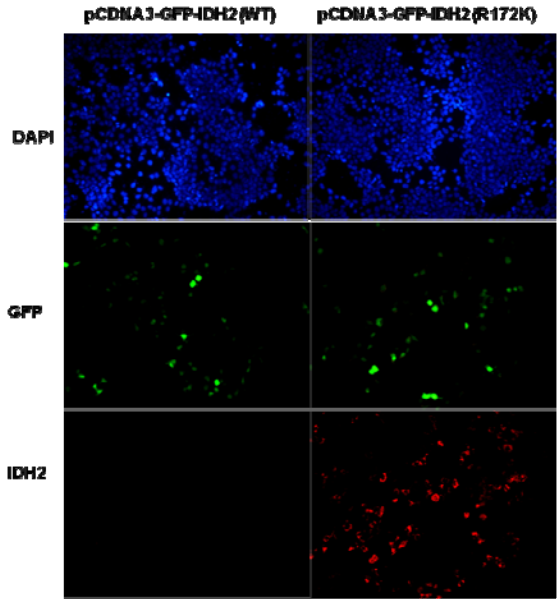
**Immunofluorescence:**




**Immunofluorescence of cells expressing IDH2 proteins with anti-IDH2 (R172K) antibody.**
HEK293T cells were transfected with pCDNA3-GFP-IDH2 (WT) plasmid (left column) or pCDNA3-GFP-IDH2 (R172K) plasmid (right column), then fixed and stained with anti-IDH2 (R172K) monoclonal antibody (Cat. #26163).