

IDH2 (R140Q)

Catalog Number: 26165

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

Description: Anti-IDH2 (R140Q) Mouse Monoclonal Antibody

Background: Isocitrate dehydrogenase (IDH) catalyzes the oxidative decarboxylation of isocitrate to 2-oxoglutarate. Mutations of Arg-132 in IDH to Cys, His, Leu or Ser abolish magnesium binding and the conversion of isocitrate to alpha-ketoglutarate. Instead, alpha-ketoglutarate is converted to R-2-hydroxyglutarate. Elevated levels of R-2-hydroxyglutarate are correlated with an elevated risk of malignant brain tumors.

Tested applications: ELISA, WB, IHC

Recommended dilutions:

ELISA: 1:1000-1:5000

WB: 1:500-1:1000

IHC: 1:50-1:100

Concentration: 1 mg/ml

Host: Mouse

Clonality: Monoclonal

Purity: Purified from ascites

Format: Liquid

Storage buffer:

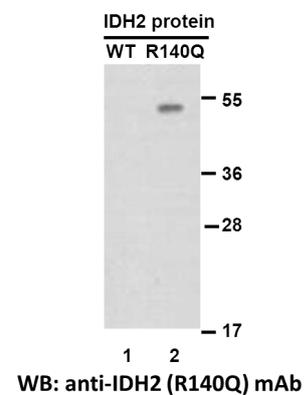
Preservative: no

Constituents: PBS (without Mg^{2+} and Ca^{2+}), pH 7.4, 150 mM NaCl, 50% glycerol

Species Reactivity: Recognizes R140Q mutant, but not wild-type IDH2 of vertebrates.

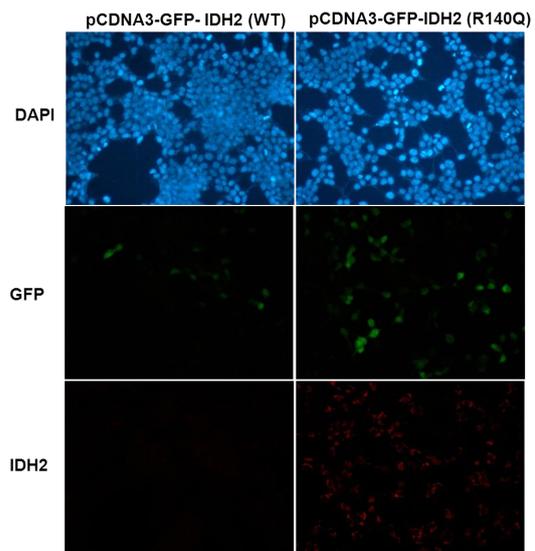
Storage Conditions: Store at $-20^{\circ}C$. Avoid freeze / thaw cycles.

Western blot:



Western blot analysis of recombinant IDH2 (R140Q) and wildtype proteins. Purified His-tagged IDH2 (R140Q) protein (lane 2) and corresponding wildtype protein (lane 1) were blotted with anti-IDH2 (R140Q) monoclonal antibody (Cat. #26165).

Immunofluorescence:



Immunofluorescence of cells expressing IDH2 proteins with anti-IDH2 (R140Q) antibody.

HEK293T cells were transfected with pCDNA3-GFP-IDH2 (WT) plasmid (left column) or pCDNA3-GFP-IDH2 (R140Q) plasmid (right column), then fixed and stained with anti-IDH2 (R140Q) monoclonal antibody (Cat. #26165).