

## IDH2(R140Q)

### IDH2(R140Q)

**Cat. #::** 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.

**Immunogen:** A synthetic peptide from the internal region of IDH2 which includes the mutation of R140Q, human origin.

**Applications:** ELISA, WB, IF, IHC

**Recommended Dilutions:**

ELISA: 1:1000-1:5000

WB: 1:500-1:1000

IF: 1:50-1:100

IHC: 1:50-1:100

**Concentration:** 1 mg/ml

**Host Species:** Mouse

**Format:** Liquid

**Clonality:** Monoclonal

**Isotype:**

**Purity:** Purified from ascites

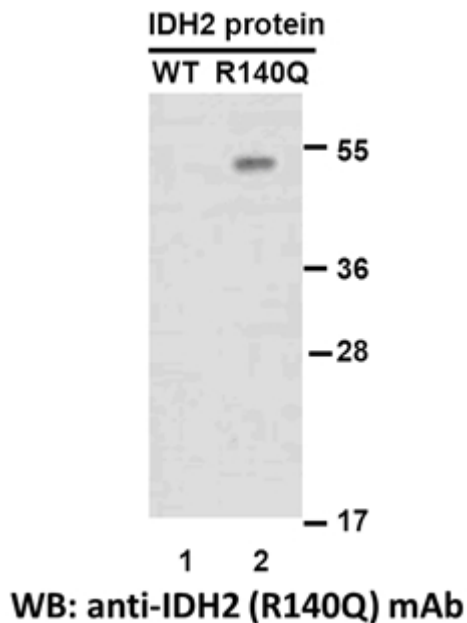
**Preservative:** No

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

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

**Storage Conditions:** Store at -20°C. Avoid repeated freezing and thawing

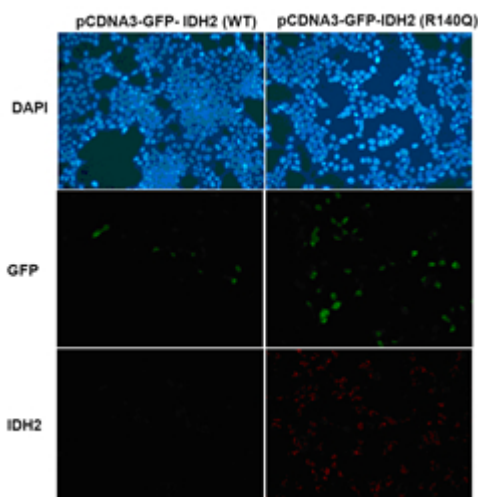
### Western blot:



### Western blot analysis of recombinant IDH2(R140Q) and wild type proteins.

Purified His-tagged IDH2(R140Q) protein (lane 2) and corresponding wild type 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).



# Product Description

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