

# **Product Description**

Pioneering GTPase and Oncogene Product Development since 2010

#### 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.

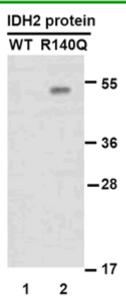
Storage Conditions: Store at -20°C. Avoid repeated freezing and thawing

#### **Western blot:**



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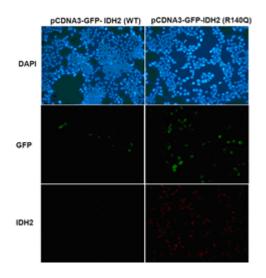


WB: anti-IDH2 (R140Q) mAb

### 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).



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