

Product Description

Pioneering GTPase and Oncogene Product Development since 2010

IDH1(R132S)

Catalog Number: 26160

Gene Symbol: IDH1; IDCD; IDH; IDP; IDPC; PICD

Description: Anti-IDH1 (R132S) Mouse Monoclonal Antibody

Background: Isocitrate dehydrogenases catalyze the oxidative decarboxylation of isocitrate to 2-oxoglutarate. Mutations affecting Arg-132 are tissue-specific, and suggest that this residue plays a unique role in the development of high-grade gliomas. Mutations of Arg-132 to Cys, His, Leu or Ser abolish magnesium binding and abolish 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 theinternal

Immunogen: A synthetic peptide from theinternal region of IDH1, which includes themutation of R132S,

human origin.

Tested 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: Mouse

Clonality: Monoclonal

Isotype: IgG

Purity: Purified from ascites

Format: Liquid Preservative: No

Constituents: PBS (without Mg²⁺ and Ca²⁺), pH7.4, 150

mM NaCl, 50% glycerol

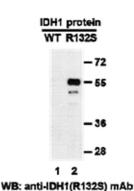
Species Reactivity: Recognizes R132S mutant, but not

wild-type IDH1 of vertebrates.

Storage Conditions: Store at -20°CAvoid repeated

freezing and thawing

Western blot:



Western blot analysis of recombinant IDH1 (R132S)

and wild type proteins.

Purified His-tagged IDH1 (R132S) protein (lane 2) and wild-type protein (lane 1) were blotted with anti-IDH1 (R132S) mouse antibody (Cat. # 26160).

Support:

Web:

610-945-2007

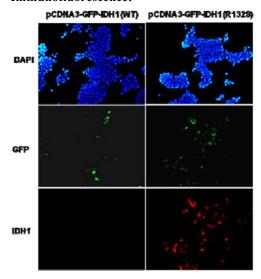
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Immunofluorescence:



Immunofluorescence of cells expressing IDH1 proteins with anti-IDH1 (R132S) antibody.

HEK293T cells were transfected with pCDNA3-GFP-IDH1 (WT) plasmid (left column) or pCDNA3-GFP-IDH1 (R132S) plasmid (right column), then fixed and stained with anti-IDH1 (R132S) monoclonal antibody (Cat. # 26160).