

Product Description

Pioneering GTPase and Oncogene Product Development since 2010

IDH1(R132H)

Catalog Number: 26081

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

Description: Anti-IDH1(R132H) 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 region of IDH1 which includes themutation of R132H, 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

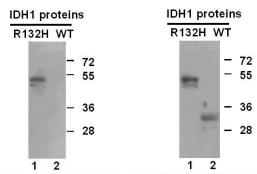
Species Reactivity: Anti-IDH1(R132H) antibody

recognizes IDH1(R132H) of vertebrates.

Storage Conditions: Store at -20°C. Avoid freeze / thaw

cycles.

Western blot:



WB: Anti-IDH1(R132H) mAb WB: Anti-IDH1 mAb

Western blot analysis of recombinant IDH1 (R132H) and wild type proteins.

HEK293T cells were transfected with pCDNA3-GFP-IDH1 (WT) plasmid (left column) or pCDNA3-GFP-IDH1 (R132H) plasmid (right column), then fixed and stained with anti-IDH1(R132H) monoclonal antibody (Cat. # 26081).

FOR RESEARCH USE ONLY. NOT FOR DIAGNOSTIC APPLICATIONS

NewEast Biosciences 1150 First Avenue, Suite 501 King of Prussia, PA 19406 Support:

Web:

610-945-2007

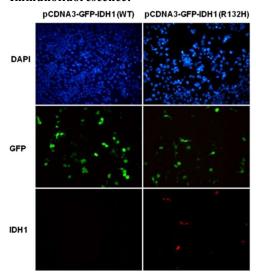
info@neweastbio.com

www.neweastbio.com



Pioneering GTPase and Oncogene Product Development since 2010

Immunofluorescence:



Immunofluorescence of cells expressing IDH1 proteins with anti-IDH1(R132H) antibody.

HEK293T cells were transfected with pCDNA3-GFP-IDH1 (WT) plasmid (left column) or pCDNA3-GFP-IDH1 (R132H) plasmid (right column), then fixed and stained with anti-IDH1 (R132H) monoclonal antibody (Cat. # 26081).

Web: