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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 the internal region of IDH1 which includes the mutation of R132S, human origin. 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 Mg²⁺ and Ca²⁺), pH 7.4, 150 mM NaCl, 50% glycerol Species Reactivity: Recognizes IDH1 (R132S) mutated prteein, but not wild-type IDH1 of vertebrates. Storage Conditions: Store at -20°C. Avoid

freeze / thaw cycles

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).

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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).