

IDH2 (D7H6Q) Rabbit mAb



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Applications: W, IP	Reactivity: H M R Mk	Sensitivity: Endogenous	MW (kDa): 50	Source/Isotype: Rabbit IgG	UniProt ID: #P48735	Entrez-Gene Id: 3418
Product Usage Information		Application Western Blotting Immunoprecipitation			Dilution 1:1000 1:50	
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.				
Specificity/Sensitivity		IDH2 (D7H6Q) Rabbit mAb recognizes endogenous levels of total IDH2 protein. This antibody also recognizes overexpressed IDH1 protein.				
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues near the amino terminus of human IDH2 protein.				
Background		IDH2 is one of three isocitrate dehydrogenases (IDH1-3) that catalyze the oxidative decarboxylation of isocitrate to produce CO_2 and α -ketoglutarate (α -KG). These enzymes belong to two distinct subclasses that utilize either NAD or NADP $^+$ as an electron acceptor. IDH2 is an NADP $^+$ -dependent isocitrate dehydrogenase expressed primarily in the mitochondria, where it also functions in the TCA cycle (1,2). Mutations in IDH2 or its cytoplasmic counterpart (IDH1) have been reported in glioblastoma multiforme (3), acute myeloid leukemia (4,5), and other malignancies (6). Research studies have shown that gain-of-function mutations in IDH2 can lead to the accumulation and secretion of the oncometabolite R-2-hydroxyglutarate (2HG) in cancer cells (6,7).				
Background References		1. Wise, D.R. et al. (2011) <i>Proc Natl Acad Sci U S A</i> 108, 19611-6. 2. Filipp, F.V. et al. (2012) <i>Pigment Cell Melanoma Res</i> 25, 375-83. 3. Parsons, D.W. et al. (2008) <i>Science</i> 321, 1807-12. 4. Abbas, S. et al. (2010) <i>Blood</i> 116, 2122-6. 5. Paschka, P. et al. (2010) <i>Clin Oncol</i> 28, 3636-43. 6. Watanabe, T. et al. (2009) <i>Am J Pathol</i> 174, 1149-53. 7. Pardanani, A. et al. (2010) <i>Leukemia</i> 24, 1370-2.				

Species Reactivity Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Western Blot Buffer IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X

TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key W: Western Blotting IP: Immunoprecipitation

Cross-Reactivity Key H: Human M: Mouse R: Rat Mk: Monkey

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