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IDH1 Antibody

Rabbit mAb
Catalog # AP92314

Product Information

Application	WB, IHC, IP
Primary Accession	O75874
Reactivity	Rat, Human, Mouse
Clonality	Monoclonal
Other Names	HEL-216; HEL-S-26; ICDH; IDCD; IDH; IDH1; IDP; IDPC; PICD;
Isotype	Rabbit IgG
Host	Rabbit
Calculated MW	46659

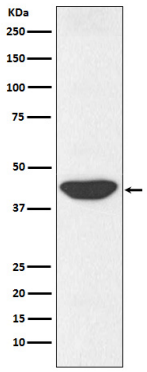
Additional Information

Dilution	WB 1:500~1:2000 IHC 1:50~1:200 IP 1:50
Purification	Affinity-chromatography
Immunogen	A synthesized peptide derived from human IDH1
Description	Genetic variations are associated with cartilaginous tumors such as enchondroma or chondrosarcoma. Mutations of Arg-132 to Cys, Gly or His abolish the conversion of isocitrate to alpha-ketoglutarate. Instead, alpha-ketoglutarate is converted to R(-)-2-hydroxyglutarate.
Storage Condition and Buffer	Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. Store at +4°C short term. Store at -20°C long term. Avoid freeze / thaw cycle.

Protein Information

Name	IDH1
Synonyms	PICD
Function	Catalyzes the NADP(+)-dependent oxidative decarboxylation of isocitrate (D-threo-isocitrate) to 2-ketoglutarate (2-oxoglutarate), which is required by other enzymes such as the phytanoyl-CoA dioxygenase (PubMed:10521434, PubMed:19935646). Plays a critical role in the generation of NADPH, an important cofactor in many biosynthesis pathways (PubMed:10521434). May act as a corneal epithelial crystallin and may be involved in maintaining corneal epithelial transparency (By similarity).
Cellular Location	Cytoplasm, cytosol. Peroxisome

Images



Western blot analysis of IDH1 expression in HepG2 cell lysate.

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