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IDH1 Antibody
Rabbit mAb
Catalog # AP92314

Specification

IDH1 Antibody - Product Information

Application	**WB, IHC, IP**
Primary Accession	O75874
Reactivity	**Rat**
Clonality	**Monoclonal**

Other Names
HEL-216; HEL-S-26; ICDH; IDCD; IDH; IDH1; IDP; IDPC; PICD;

Isotype	**Rabbit IgG**
Host	**Rabbit**
Calculated MW	**46659 Da**

IDH1 Antibody - Additional Information

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.**

IDH1 Antibody - 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).

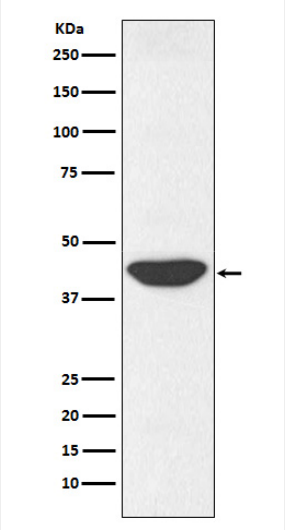
Cellular Location
Cytoplasm, cytosol. Peroxisome

IDH1 Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

IDH1 Antibody - Images



Western blot analysis of IDH1 expression in HepG2 cell lysate.