

**IDH1 Antibody**  
Rabbit mAb  
Catalog # AP92314

## Specification

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### IDH1 Antibody - Product Information

Application	WB, IHC, IP
Primary Accession	<a href="#">O75874</a>
Reactivity	Rat
Clonality	Monoclonal
<b>Other Names</b>	
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	<b>Affinity-chromatography</b>
Immunogen	<b>A synthesized peptide derived from human IDH1</b>
Description	<b>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.</b>
Storage Condition and Buffer	<b>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.</b>

### 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](http://www.uniprot.org/citations/10521434), PubMed: [19935646](http://www.uniprot.org/citations/19935646)). Plays a critical role in the generation of NADPH, an important cofactor in many biosynthesis pathways (PubMed: [10521434](http://www.uniprot.org/citations/10521434)). May act as a

corneal epithelial crystallin and may be involved in maintaining corneal epithelial transparency (By similarity).

#### Cellular Location

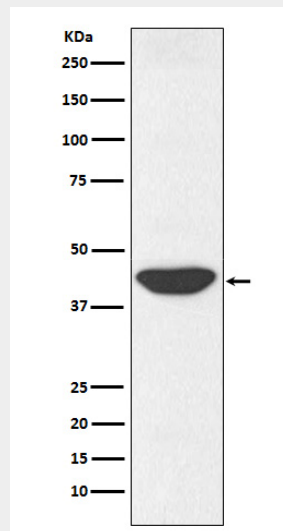
Cytoplasm, cytosol. Peroxisome

#### 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 Cytometry](#)
- [Cell Culture](#)

#### IDH1 Antibody - Images



Western blot analysis of IDH1 expression in HepG2 cell lysate.