

# IDH1 Rabbit mAb

Catalog # AP74833

## Product Information

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|--------------------------|------------------------|
| <b>Application</b>       | WB, IHC-P, IP          |
| <b>Primary Accession</b> | <a href="#">O75874</a> |
| <b>Reactivity</b>        | Rat, Human, Mouse      |
| <b>Host</b>              | Rabbit                 |
| <b>Clonality</b>         | Monoclonal Antibody    |
| <b>Isotype</b>           | IgG                    |
| <b>Conjugate</b>         | Unconjugated           |
| <b>Purification</b>      | Affinity Purified      |
| <b>Calculated MW</b>     | 46659                  |

## Additional Information

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|--------------------|---|
| <b>Gene ID</b>     | 3417  |
| <b>Other Names</b> | IDH1  |
| <b>Dilution</b>    | WB~~1:1000-1:5000 IHC-P~~N/A IP~~1:10-1:100   |
| <b>Format</b>      | Liquid in 50mM Tris-Glycine(pH 7.4), 0.15M NaCl, 40%Glycerol, 0.01% sodium azide and 0.05% BSA. |
| <b>Storage</b>     | Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.        |

## Protein Information

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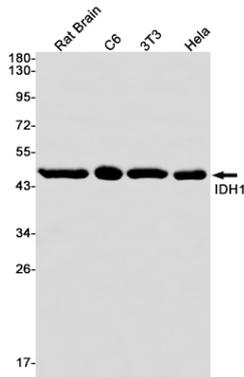
|                          |  |
|--------------------------|--|
| <b>Name</b>              | IDH1   |
| <b>Synonyms</b>          | PICD   |
| <b>Function</b>          | Catalyzes the NADP(+)-dependent oxidative decarboxylation of isocitrate (D-threo-isocitrate) to 2-ketoglutarate (2-oxoglutarate), which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

## Background

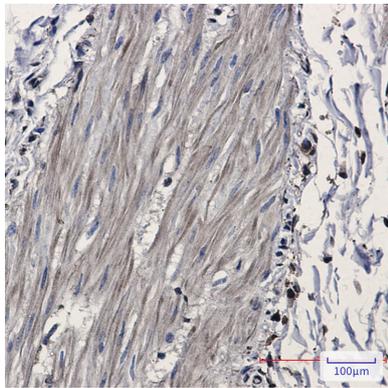
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IDH1, also named as PICD and IDP, belongs to the isocitrate and isopropylmalate dehydrogenases family. It is a common feature of a major subset of primary human brain cancers. It can form a homodimer(PMID:15173171). IDH1 mutation is always heterozygotic and IDH1 functions as a dimer, theoretically there will be 25% each wild type and mutant homo-dimers and 50% hetero-dimers present in the tumor cells(PMID:21079649 ).

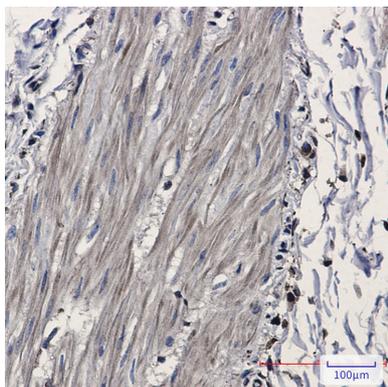
## Images



Western blot analysis of IDH1 in rat Brain, C6, 3T3, HeLa lysates using IDH1 antibody.



Immunohistochemistry analysis of paraffin-embedded Human Cholangiocarcinoma using Isocitrate dehydrogenase antibody. High-pressure and temperature Sodium Citrate pH 6.0 was used for antigen retrieval.



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