

IDH1 Antibody (N-term)

Purified Rabbit Polyclonal Antibody (Pab) Catalog # AP7454A

Specification

IDH1 Antibody (N-term) - Product Information

Application IF, WB, IHC-P,

FC,E

075874 **Primary Accession**

Other Accession P41562, 088844,

09XSG3, 06XUZ5

Reactivity Human, Mouse Predicted

Bovine, Rat,

Sheep

Host Rabbit Clonality **Polyclonal** Isotype Rabbit Ig Antigen Region 63-90

IDH1 Antibody (N-term) - Additional Information

Gene ID 3417

Other Names

Isocitrate dehydrogenase [NADP] cytoplasmic, IDH, Cytosolic NADP-isocitrate dehydrogenase, IDP, NADP(+)-specific ICDH, Oxalosuccinate decarboxylase, IDH1, **PICD**

Target/Specificity

This IDH1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 63-90 amino acids from the N-terminal region of human IDH1.

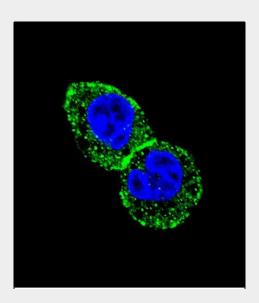
Dilution

IF~~1:10~50 WB~~1:1000 IHC-P~~1:50~100 FC~~1:10~50

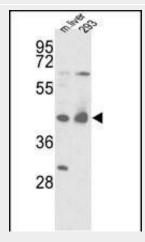
Format

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.

Storage



Confocal immunofluorescent analysis of IDH1 Antibody (N-term)(Cat#AP7454a) with HepG2 cell followed by Alexa Fluor 488-conjugated goat anti-rabbit IgG (green).DAPI was used to stain the cell nuclear (blue).



Western blot analysis of IDH1 Antibody (N-term) (Cat.#AP7454a) in mouse liver tissue and 293 cell line lysates (35ug/lane). IDH1 (arrow) was detected using the purified Pab.





Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

IDH1 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

IDH1 Antibody (N-term) - Protein Information

Name IDH1

Synonyms PICD

Cellular Location Cytoplasm, cytosol. Peroxisome

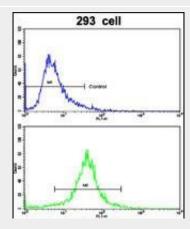
IDH1 Antibody (N-term) - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- <u>Immunohistochemistry</u>
- Immunofluorescence
- <u>Immunoprecipitation</u>
- Flow Cytomety
- Cell Culture



Formalin-fixed and paraffin-embedded human brain reacted with IDH1 Antibody (N-term), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.

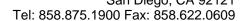


Flow cytometric analysis of 293 cells using IDH1 Antibody (N-term)(bottom histogram) compared to a negative control cell (top histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

IDH1 Antibody (N-term) - Background

IDH1 belongs to two distinct subclasses. The protein is the NADP(+)-dependent isocitrate dehydrogenase found in the cytoplasm and peroxisomes. This protein contains the PTS-1 peroxisomal targeting signal sequence. The presence of this enzyme in peroxisomes suggests roles in the regeneration of NADPH for intraperoxisomal reductions, such as the conversion of 2, 4-dienoyl-CoAs to 3-enoyl-CoAs, as well as in peroxisomal reactions that consume 2-oxoglutarate, namely







the alpha-hydroxylation of phytanic acid. The cytoplasmic enzyme serves a significant role in cytoplasmic NADPH production.

IDH1 Antibody (N-term) - References

Geisbrecht B.V., Gould S.J.J. Biol. Chem. 274:30527-30533(1999) Xu X., Zhao J., Xu Z.J. Biol. Chem. 279:33946-33957(2004) Bleeker F.E., Lamba S.Hum. Mutat. 30:7-11(2009)