



IDH1 Antibody (N-term) Blocking Peptide

Synthetic peptide Catalog # BP7454a

Specification

IDH1 Antibody (N-term) Blocking Peptide - Product Information

Primary Accession <u>075874</u>

IDH1 Antibody (N-term) Blocking Peptide - 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

The synthetic peptide sequence used to generate the antibody AP7454a was selected from the N-term region of human IDH1. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

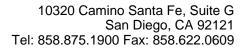
IDH1 Antibody (N-term) Blocking Peptide - Protein Information

IDH1 Antibody (N-term) Blocking Peptide - 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) Blocking Peptide - 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)





Name IDH1

Synonyms PICD

Cellular Location Cytoplasm, cytosol. Peroxisome

IDH1 Antibody (N-term) Blocking Peptide - Protocols

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

• Blocking Peptides