

**IDH1 Antibody (N-term) Blocking Peptide**  
**Synthetic peptide**  
**Catalog # BP7454a****Specification****IDH1 Antibody (N-term) Blocking Peptide -  
Product Information**Primary Accession [O75874](#)**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 [<a href=/products/AP7454a>AP7454a</a>](#)  
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](#)