

IDH1 Antibody (Center) Blocking Peptide
Synthetic peptide
Catalog # BP7454c**Specification****IDH1 Antibody (Center) Blocking Peptide -
Product Information**Primary Accession [O75874](#)**IDH1 Antibody (Center) 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 [AP7454c](#)
was selected from the Center 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 (Center) Blocking Peptide -
Protein Information****IDH1 Antibody (Center) 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 (Center) 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 (Center) Blocking Peptide - Protocols

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

- [Blocking Peptides](#)