

**IDH1 (aa65-77) Antibody (internal region)**  
Peptide-affinity purified goat antibody  
Catalog # AF3399a

## Specification

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### IDH1 (aa65-77) Antibody (internal region) - Product Information

Application	WB
Primary Accession	<a href="#">O75874</a>
Other Accession	<a href="#">NP_005887.2</a> , <a href="#">3417</a> , <a href="#">15926 (mouse)</a> , <a href="#">24479 (rat)</a>
Reactivity	Human, Mouse, Rat
Predicted	Dog, Sheep
Host	Goat
Clonality	Polyclonal
Concentration	0.5 mg/ml
Isotype	IgG
Calculated MW	46659

### IDH1 (aa65-77) Antibody (internal region) - Additional Information

Gene ID 3417

#### Other Names

Isocitrate dehydrogenase [NADP] cytoplasmic, IDH, 1.1.1.42, Cytosolic NADP-isocitrate dehydrogenase, IDP, NADP(+)-specific ICDH, Oxalosuccinate decarboxylase, IDH1, PICD

#### Format

0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin

#### Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

#### Precautions

IDH1 (aa65-77) Antibody (internal region) is for research use only and not for use in diagnostic or therapeutic procedures.

### IDH1 (aa65-77) Antibody (internal region) - Protein Information

Name IDH1

Synonyms PICD

#### Function

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="http://www.uniprot.org/citations/10521434">

target="\_blank">10521434</a>, PubMed:<a href="http://www.uniprot.org/citations/19935646" target="\_blank">19935646</a>). Plays a critical role in the generation of NADPH, an important cofactor in many biosynthesis pathways (PubMed:<a href="http://www.uniprot.org/citations/10521434" target="\_blank">10521434</a>). May act as a corneal epithelial crystallin and may be involved in maintaining corneal epithelial transparency (By similarity).

#### Cellular Location

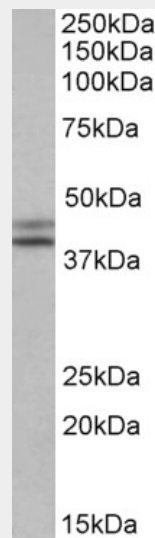
Cytoplasm, cytosol. Peroxisome

#### IDH1 (aa65-77) Antibody (internal region) - Protocols

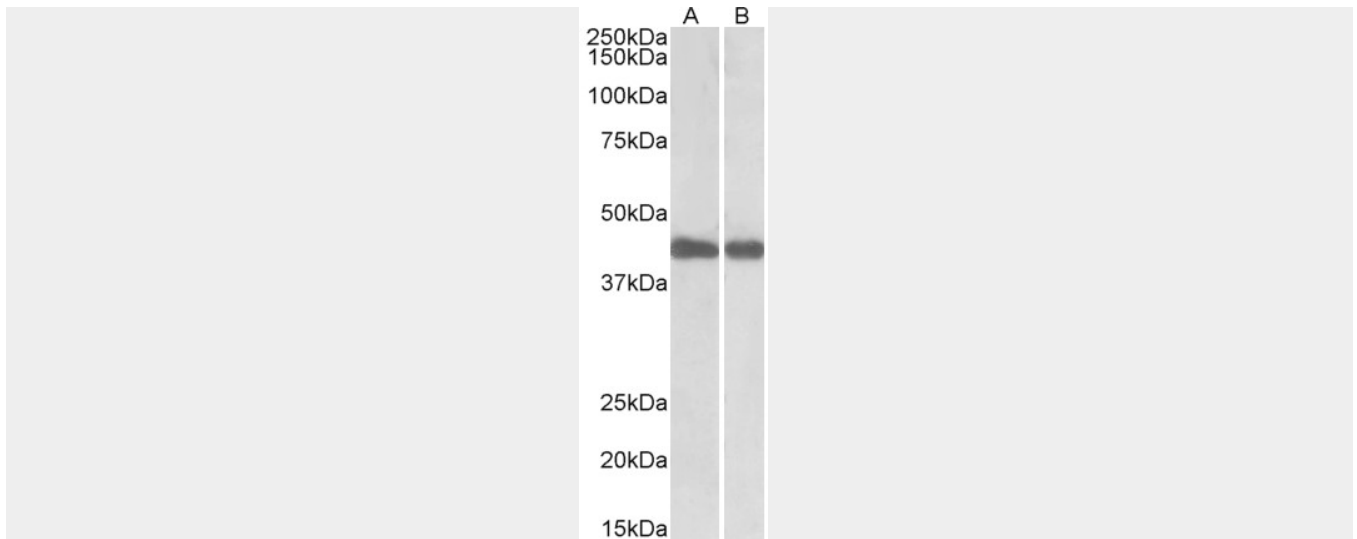
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

#### IDH1 (aa65-77) Antibody (internal region) - Images



AF3399a (0.1 µg/ml) staining of HepG2 lysate (35 µg protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.



AF3399a (0.1 µg/ml) staining of Mouse (A) and Rat (B) Liver lysates (35 µg protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.

#### **IDH1 (aa65-77) Antibody (internal region) - References**

Acquired mutations in the genes encoding IDH1 and IDH2 both are recurrent aberrations in acute myeloid leukemia (AML): prevalence and prognostic value. Abbas S, Lugthart S, Kavelaars FG, Schelen A, Koenders J, Zeilemaker A, van Putten WJ, Rijneveld A, Löwenberg B, Valk PJ. Blood. 2010 Jun 10. PMID: 20538800