# antibodies .- online.com





# anti-IDH1 antibody (Center)





Go to Product page

### Overview

Quantity:	100 μL
Target:	IDH1
Binding Specificity:	Center
Reactivity:	Human, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This IDH1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunoprecipitation (IP), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))
Product Details	

Immunogen:	Recombinant protein encompassing a sequence within the center region of human IDH1. The exact sequence is proprietary.
Isotype:	IgG
Cross-Reactivity:	Rhesus Monkey
Cross-Reactivity (Details):	Rhesus Monkey (100 %)
Characteristics:	Rabbit Polyclonal antibody to IDH1 (isocitrate dehydrogenase 1 (NADP+), soluble) IDH1 antibody
Purification:	Purified by antigen-affinity chromatography.

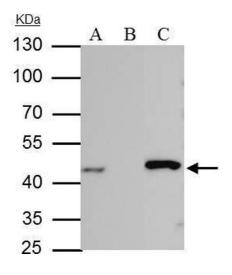
## **Target Details**

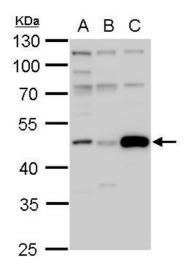
Target:	IDH1
Alternative Name:	IDH1 (IDH1 Products)
Background:	Isocitrate dehydrogenases catalyze the oxidative decarboxylation of isocitrate to 2-
	oxoglutarate. These enzymes belong to two distinct subclasses, one of which utilizes NAD(+)
	as the electron acceptor and the other NADP(+). Five isocitrate dehydrogenases have been
	reported: three NAD(+)-dependent isocitrate dehydrogenases, which localize to the
	mitochondrial matrix, and two NADP(+)-dependent isocitrate dehydrogenases, one of which is
	mitochondrial and the other predominantly cytosolic. Each NADP(+)-dependent isozyme is a
	homodimer. The protein encoded by this gene is the NADP(+)-dependent isocitrate
	dehydrogenase found in the cytoplasm and peroxisomes. It 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.
	Cellular Localization: Cytoplasm , Peroxisome
Molecular Weight:	47 kDa
Gene ID:	3417
Pathways:	Warburg Effect
Application Details	
Application Notes:	Suggested dilution Reference IHC (Formalin-fixed paraffin-embedded sections) 1:100-1:1000*
	Immunoprecipitation 1:100-1:1000* Western blot 1:500-1:3000* Not tested in other
	applications. *Optimal dilutions/concentrations should be determined by the
	researcher.Suggested dilutionReferenceIHC (Formalin-fixed paraffin-embedded sections)1:100
	1:1000* Immunoprecipitation1:100-1:1000* Western blot1:500-1:3000*
Comment:	Positive Control: A431 , HepG2 , JC , C2C12 , 293T , Hela , Neuro2A , GL261 , NIH-3T3 , BCL-1
Restrictions:	For Research Use only
Handling	

#### Handling

Concentration:	1 mg/mL
Buffer:	1XPBS, 20 % Glycerol (pH 7). 0.025 % ProClin 300 was added as a preservative.
Preservative:	ProClin
Precaution of Use:	This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C
Storage Comment:	Keep as concentrated solution. Aliquot and store at -20°C or below. Avoid multiple freeze-thaw cycles.

#### **Images**



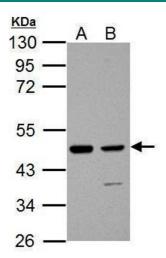


#### **Immunoprecipitation**

Image 1. IP Image IDH-1 antibody immunoprecipitates IDH-1 protein in IP experiments. IP Sample: HepG2 whole cell lysate/extract A: 30  $\mu g$  whole cell lysate/extract of IDH1 protein expressing HepG2 cells B: Control with 2.5  $\mu g$  of pre-immune rabbit IgG C: Immunoprecipitation of IDH-1 protein by 2.5  $\mu g$  of IDH-1 antibody , 10% SDS-PAGE The immunoprecipitated IDH-1 protein was detected by IDH-1 antibody , diluted at 1:1000. EasyBlot anti-mouse IgG (HRP) was used as a secondary reagent.

#### **Western Blotting**

**Image 2.** WB Image IDH1 antibody detects IDH1 protein by western blot analysis. A. 30  $\mu g$  293T whole cell lysate/extract B. 30  $\mu g$  HeLa whole cell lysate/extract C. 30  $\mu g$  HepG2 whole cell lysate/extract 10 % SDS-PAGE IDH1 antibody, dilution: 1:1000



#### **Western Blotting**

Image 3. WB Image Sample (30 ug of whole cell lysate) A: JC B: C2C12 10% SDS PAGE antibody diluted at 1:1000

Please check the product details page for more images. Overall 5 images are available for ABIN2856056.