

Datasheet for ABIN6142143  
**anti-IDH1 antibody (AA 1-414)**[Go to Product page](#)

## 4 Images

## Overview

Quantity:	100 µL
Target:	IDH1
Binding Specificity:	AA 1-414
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This IDH1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunofluorescence (IF), Immunoprecipitation (IP)

## Product Details

Immunogen:	Recombinant fusion protein containing a sequence corresponding to amino acids 1-414 of human IDH1 (NP_005887.2).
Sequence:	MSKKISGGSV VEMQGDEMTR IIWELIKEKL IFPYVELDLH SYDLGIENRD ATNDQVTKDA AEAIAKKHNVG VKCATITPDE KRVEEFKLKQ MWKSPNGTIR NILGGTVFRE AIICKNIPRL VSGWVKPIII GRHAYGDQYR ATDFVVPGP KVEITYTPSD GTQKVITYLVH NFEEGGGVAM GMYNQDKSIE DFAHSSFQMA LSKGWPLYLS TKNTILKKYD GRFKDIFQEI YDKQYKSQFE AQKIWYEHRL IDDMVAQAMK SEGGEI WACK NYDGDVQSDS VAQGYGSLGM MTSVLVCPDG KTVEAEAAHG TVTRHYRMYQ KGQETSTNPI ASIFAWTRGL AHRAKLDNNK ELAFFANALE EVSITIEAG FMTKDLAACI KGLPNVQRSD YLNTFEFMDK LGENLKIKLA QAKL
Isotype:	IgG
Cross-Reactivity:	Human, Mouse, Rat

## Product Details

Characteristics: Polyclonal Antibodies

Purification: Affinity purification

## 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. Alternatively spliced transcript variants encoding the same protein have been found for this gene.,IDH1,HEL-216,HEL-S-26,IDCD,IDH,IDP,IDPC,PICD,Epigenetics & Nuclear Signaling,Cancer,Signal Transduction,Endocrine & Metabolism,Lipid Metabolism,IDH1

Molecular Weight: 46 kDa

Gene ID: 3417

UniProt: [O75874](#)

Pathways: [Warburg Effect](#)

## Application Details

Application Notes: WB,1:500 - 1:2000,IF,1:50 - 1:200,IP,1:50 - 1:100

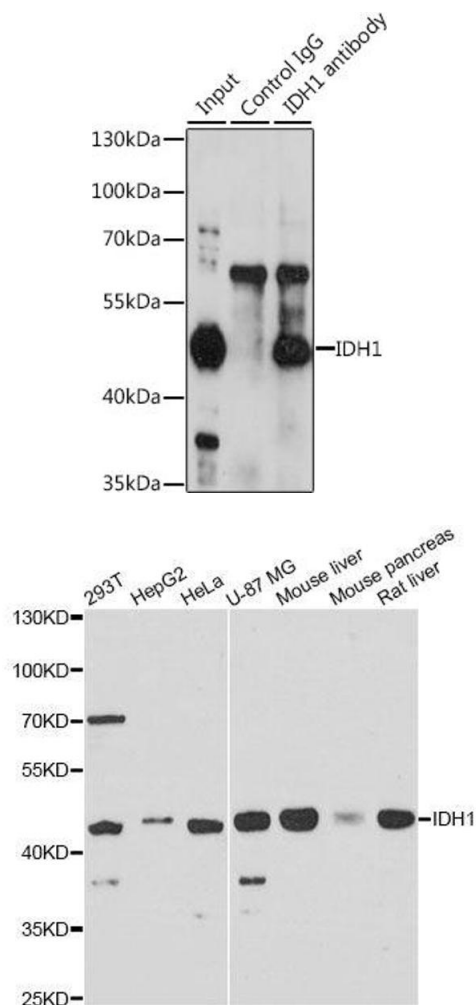
Comment: HIGH QUALITY

Restrictions: For Research Use only

## Handling

Format:	Liquid
Buffer:	PBS with 0.02 % sodium azide,50 % glycerol, pH 7.3.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C
Storage Comment:	Store at -20°C. Avoid freeze / thaw cycles.

## Images

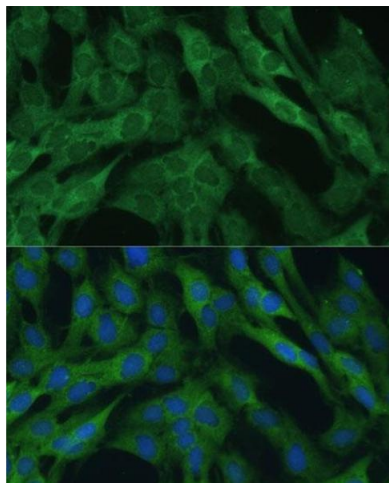


### Immunoprecipitation

**Image 1.** Immunoprecipitation analysis of 200 µg extracts of HeLa cells, using 3 µg IDH1 antibody (ABIN6131797, ABIN6142143, ABIN6142144 and ABIN6217174). Western blot was performed from the immunoprecipitate using IDH1 antibody (ABIN6131797, ABIN6142143, ABIN6142144 and ABIN6217174) at a dilution of 1:1000.

### Western Blotting

**Image 2.** Western blot analysis of extracts of various cell lines, using IDH1 antibody.



### Immunofluorescence

**Image 3.** Immunofluorescence analysis of C6 cells using IDH1 Polyclonal Antibody (ABIN6131797, ABIN6142143, ABIN6142144 and ABIN6217174) at dilution of 1:100 (40x lens). Blue: DAPI for nuclear staining.

Please check the [product details page](#) for more images. Overall 4 images are available for ABIN6142143.