

## Datasheet for ABIN2783282 anti-IDH2 antibody (Middle Region)



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4 Images

1 Publication

### Overview

Quantity:	100 µL
Target:	IDH2
Binding Specificity:	Middle Region
Reactivity:	Human, Mouse, Rat, Cow, Dog, Horse, Rabbit, Guinea Pig, Zebrafish (Danio rerio), Saccharomyces cerevisiae
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This IDH2 antibody is un-conjugated
Application:	Western Blotting (WB)

### Product Details

Immunogen:	The immunogen is a synthetic peptide directed towards the middle region of human IDH2
Sequence:	GGTVFREPII CKNIPRLVPG WTKPITIGRH AHGDQYKATD FVADRAGTFK
Predicted Reactivity:	Cow: 100%, Dog: 100%, Guinea Pig: 100%, Horse: 100%, Human: 100%, Mouse: 100%, Rabbit: 100%, Rat: 100%, Yeast: 93%, Zebrafish: 100%
Characteristics:	This is a rabbit polyclonal antibody against IDH2. It was validated on Western Blot using a cell lysate as a positive control.
Purification:	Affinity Purified

### Target Details

Target:	IDH2
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## Target Details

Alternative Name: IDH2 ([IDH2 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. IDH2 is the NADP(+)-dependent isocitrate dehydrogenase found in the mitochondria. It plays a role in intermediary metabolism and energy production. This protein may tightly associate or interact with the pyruvate dehydrogenase complex. 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 mitochondria. It plays a role in intermediary metabolism and energy production. This protein may tightly associate or interact with the pyruvate dehydrogenase complex. Publication Note: This RefSeq record includes a subset of the publications that are available for this gene. Please see the Entrez Gene record to access additional publications.

Alias Symbols: ICD-M, IDH, IDHM, IDP, mNADP-IDH, IDPM, D2HGA2

Protein Interaction Partner: UBC, SUMO1, NEDD8, MDM2, ADRB2, HDAC1, PYGL, CDK2, SLC2A4,

Protein Size: 452

Molecular Weight: 47 kDa

Gene ID: 3418

NCBI Accession: [NM\\_002168](#), [NP\\_002159](#)

UniProt: [P48735](#)

Pathways: [Warburg Effect](#)

## Application Details

Application Notes: Optimal working dilutions should be determined experimentally by the investigator.

## Application Details

Comment: Antigen size: 452 AA

Restrictions: For Research Use only

## Handling

Format: Liquid

Concentration: Lot specific

Buffer: Liquid. Purified antibody supplied in 1x PBS buffer with 0.09 % (w/v) sodium azide and 2 % sucrose.

Preservative: Sodium azide

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Handling Advice: Avoid repeated freeze-thaw cycles.

Storage: -20 °C

Storage Comment: For short term use, store at 2-8°C up to 1 week. For long term storage, store at -20°C in small aliquots to prevent freeze-thaw cycles.

## Publications

Product cited in: Craxton: "Evolutionary genomics of plant genes encoding N-terminal-TM-C2 domain proteins and the similar FAM62 genes and synaptotagmin genes of metazoans." in: **BMC genomics**, Vol. 8, pp. 259, (2007) ([PubMed](#)).

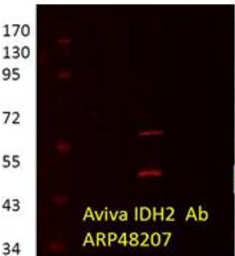


Western Blotting

**Image 1.** WB Suggested Anti-IDH2 Antibody Titration: 0.2-1 ug/ml ELISA Titer: 1:12500 Positive Control: Human Muscle

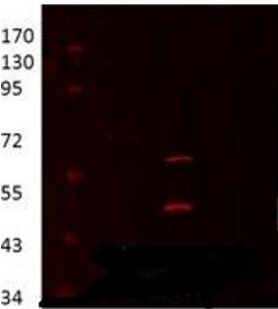
Western Blotting

**Image 2.**



**IDH2 (ARP48207)**  
Western Blot  
Rat Kidney Proximal Tubules  
Application data in forum  
Submitted by:  
Lynn Taylor  
Colorado State University

← Isocitrate dehydrogenase 2, 47 kDa



← Isocitrate dehydrogenase 2, 47 kDa

Western Blotting

**Image 3.** IDH2 antibody - middle region validated by WB using Proximal kidney tubules purified from cortex at 1:1000.

Please check the [product details page](#) for more images. Overall 4 images are available for ABIN2783282.