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Datasheet for ABIN2775312
anti-IDH3A antibody (N-Term)

4 Images

1 Publication

Overview

Quantity:	100 µL
Target:	IDH3A
Binding Specificity:	N-Term
Reactivity:	Human, Rat, Mouse, Cow, Dog, Rabbit, Horse, Guinea Pig, Zebrafish (Danio rerio)
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This IDH3A antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC)

Product Details

Immunogen:	The immunogen is a synthetic peptide directed towards the N terminal region of human IDH3A
Sequence:	MKIFDAAKAP IQWEERNVTA IQGPGGKWMI PSEAKESMDK NKMGLKGPLK
Predicted Reactivity:	Cow: 100%, Dog: 100%, Guinea Pig: 100%, Horse: 100%, Human: 100%, Mouse: 100%, Rabbit: 100%, Rat: 100%, Zebrafish: 92%
Characteristics:	This is a rabbit polyclonal antibody against IDH3A. It was validated on Western Blot and immunohistochemistry.
Purification:	Protein A purified

Target Details

Target:	IDH3A
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Target Details

Alternative Name: [IDH3A \(IDH3A Products\)](#)

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. NAD(+)-dependent isocitrate dehydrogenases catalyze the allosterically regulated rate-limiting step of the tricarboxylic acid cycle. Each isozyme is a heterotetramer that is composed of two alpha subunits, one beta subunit, and one gamma subunit. IDH3A is the alpha subunit of one isozyme of NAD(+)-dependent isocitrate dehydrogenase. 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. NAD(+)-dependent isocitrate dehydrogenases catalyze the allosterically regulated rate-limiting step of the tricarboxylic acid cycle. Each isozyme is a heterotetramer that is composed of two alpha subunits, one beta subunit, and one gamma subunit. The protein encoded by this gene is the alpha subunit of one isozyme of NAD(+)-dependent isocitrate dehydrogenase.

Protein Interaction Partner: HUWE1, SUMO2, STAU1, UBC, MDM2, ADRB2, gag-pol, RAB4A, MBNL1, S100A16, SUCLA2, UQCRFS1P1, SUMO4, EBNA-LP, MYC, TERF2, TERF1, PSMD4, DDA1, DMWD, IDH3B, IDH3G,

Protein Size: 366

Molecular Weight: 40 kDa

Gene ID: 3419

NCBI Accession: [NM_005530](#), [NP_005521](#)

UniProt: [P50213](#)

Application Details

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

Comment: Antigen size: 366 AA

Application Details

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.

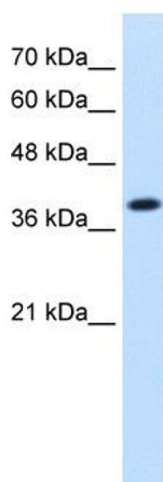
Storage: -20 °C

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

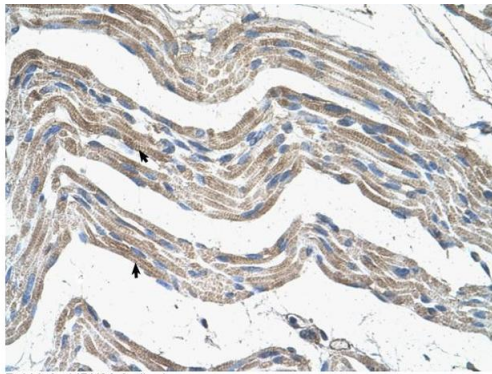
Product cited in: Small, Seman, Castator, Brown, Liggett: "False positive non-synonymous polymorphisms of G-protein coupled receptor genes." in: **FEBS letters**, Vol. 516, Issue 1-3, pp. 253-6, (2002) ([PubMed](#)).

Images



Western Blotting

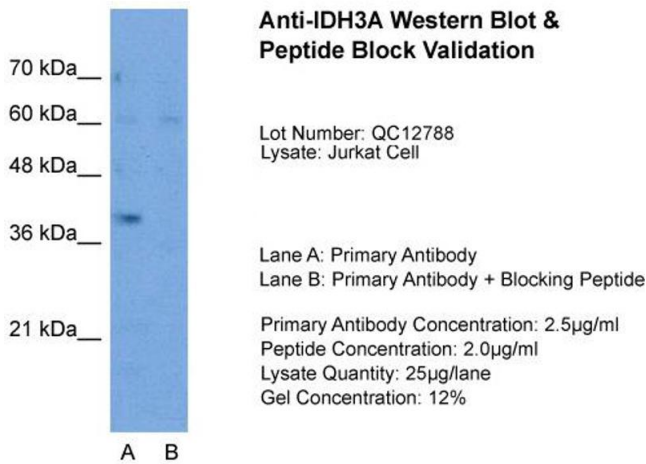
Image 1. WB Suggested Anti-IDH3A Antibody Titration: 1.25ug/ml Positive Control: Jurkat cell lysate IDH3A is strongly supported by BioGPS gene expression data to be expressed in Human Jurkat cells



Rabbit Anti-IDH3A Antibody
 Catalog Number: ARP42237
 Lot Number: QC12788
 Paraffin Embedded Tissue: Human Muscle
 Cells with Positive label: Skeletal muscle cells (Indicated with Arrows)
 Antibody Concentration: 4.0-8.0 µg/ml
 Magnification: 400X

Immunohistochemistry

Image 2. Rabbit Anti-IDH3A Antibody Paraffin Embedded
 Tissue: Human Muscle Cellular Data: Skeletal muscle cells
 Antibody Concentration: 4.0-8.0 µg/ml Magnification: 400X



Anti-IDH3A Western Blot & Peptide Block Validation

Lot Number: QC12788
 Lysate: Jurkat Cell

Lane A: Primary Antibody
 Lane B: Primary Antibody + Blocking Peptide

Primary Antibody Concentration: 2.5µg/ml
 Peptide Concentration: 2.0µg/ml
 Lysate Quantity: 25µg/lane
 Gel Concentration: 12%

Western Blotting

Image 3. Host: Rabbit Target Name: IDH3A Sample Type:
 Jurkat Lane A: Primary Antibody Lane B: Primary Antibody +
 Blocking Peptide Primary Antibody Concentration: 2.5ug/mL
 Peptide Concentration: 2.0ug/mL Lysate Quantity:
 25ug/lane Gel Concentration: 12%

Please check the [product details page](#) for more images. Overall 4 images are available for ABIN2775312.