

Datasheet for ABIN2855763

anti-IDH3A antibody

5 Images

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Overview

Quantity:	100 µL
Target:	IDH3A
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This IDH3A antibody is un-conjugated
Application:	Western Blotting (WB), Immunofluorescence (IF), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunocytochemistry (ICC)

Product Details

Immunogen:	Recombinant protein encompassing a sequence within the center region of human IDH3A. The exact sequence is proprietary.
Isotype:	IgG
Cross-Reactivity:	Human, Mouse, Rat, Zebrafish (Danio rerio)
Characteristics:	Rabbit Polyclonal antibody to IDH3A (isocitrate dehydrogenase 3 (NAD ⁺) alpha) IDH3A antibody
Purification:	Purified by antigen-affinity chromatography.

Target Details

Target:	IDH3A
Alternative Name:	isocitrate dehydrogenase 3 (NAD ⁺) alpha (IDH3A Products)

Target Details

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. The protein encoded by this gene is the alpha subunit of one isozyme of NAD(+)-dependent isocitrate dehydrogenase.

Cellular Localization: Mitochondrion

Molecular Weight: 40 kDa

Gene ID: 3419

UniProt: [P50213](#)

Application Details

Application Notes: WB: 1:1000-1:10000. ICC/IF: 1:100-1:1000. IHC-P: 1:100-1:1000. Optimal dilutions/concentrations should be determined by the researcher. Not tested in other applications.

Comment: Positive Control: Mouse brain , rat brain

Restrictions: For Research Use only

Handling

Format: Liquid

Concentration: 0.84 mg/mL

Buffer: 0.1M Tris-Glycine (pH 7), 10 % Glycerol, 0.01 % Thimerosal

Preservative: Thimerosal (Merthiolate)

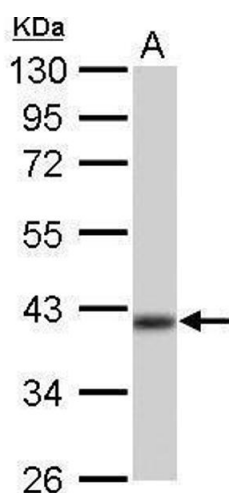
Precaution of Use: This product contains Thimerosal (Merthiolate): a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Storage: 4 °C, -20 °C

Handling

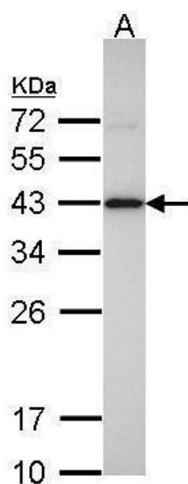
Storage Comment: Store as concentrated solution. Centrifuge briefly prior to opening vial. For short-term storage (1-2 weeks), store at 4°C. For long-term storage, aliquot and store at -20°C or below. Avoid multiple freeze-thaw cycles.

Validation report #104394 for Cleavage Under Targets and Release Using Nuclease (CUT&RUN)



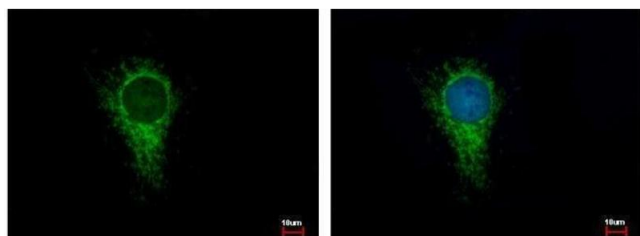
Western Blotting

Image 1. WB Image IDH3A antibody detects IDH3A protein by Western blot analysis. A. 50 µg rat brain lysate/extract 10 % SDS-PAGE IDH3A antibody , dilution: 1:10000



Western Blotting

Image 2. WB Image Sample(30 ug whole cell lysate) A: Hep G2 , 12% SDS PAGE antibody diluted at 1:500



Immunofluorescence

Image 3. ICC/IF Image IDH3A antibody detects IDH3A protein at Mitochondria by immunofluorescent analysis. Sample: HeLa cells were fixed in 2% paraformaldehyde/culture medium at 37°C for 30 min. *Green: IDH3A protein stained by IDH3A antibody , diluted at 1:500. Blue: Hoechst 33343 staining.*

Please check the [product details page](#) for more images. Overall 5 images are available for ABIN2855763.