

Datasheet for ABIN2462553
anti-IDH3A antibody



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1 Image

Overview

Quantity:	100 µL
Target:	IDH3A
Reactivity:	Human, Rat, Mouse, Dog
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This IDH3A antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (IHC)

Product Details

Immunogen:	Antibody produced in rabbits immunized with a synthetic peptide corresponding a region of human IDH3A.
Purification:	Antibody is purified by protein A chromatography method.

Target Details

Target:	IDH3A
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

Target Details

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.

Molecular Weight: 40 kDa

Gene ID: 3419

NCBI Accession: [NP_005521](#)

UniProt: [P50213](#)

Application Details

Application Notes: IDH3A antibody can be used for detection of IDH3A by ELISA at 1:312500. IDH3A antibody can be used for detection of IDH3A by western blot at 1.25 µg/mL, and HRP conjugated secondary antibody should be diluted 1:50,000 - 100,000.

Restrictions: For Research Use only

Handling

Format: Lyophilized

Reconstitution: Add 100 µL of distilled water. Final antibody concentration is 1 mg/mL.

Concentration: 1 mg/mL

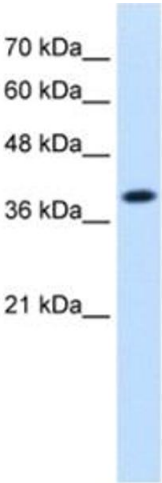
Buffer: Antibody is lyophilized in PBS buffer with 2 % sucrose.

Handling Advice: As with any antibody avoid repeat freeze-thaw cycles.

Handling

Storage:	4 °C/-20 °C
Storage Comment:	For short periods of storage (days) store at 4 °C. For longer periods of storage, store IDH3A antibody at -20 °C.

Images



Western Blotting

Image 1.