

Datasheet for ABIN7468500 **anti-IDH1 antibody**



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Overview

Quantity:	100 µL
Target:	IDH1
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This IDH1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunoprecipitation (IP), Immunofluorescence (IF), Immunocytochemistry (ICC)

Product Details

Immunogen:	Recombinant protein encompassing a sequence within the center region of human IDH1. The exact sequence is proprietary.
Clone:	GT1521
Isotype:	IgG2b
Cross-Reactivity:	Human, Mouse, Rat
Purification:	Affinity purified by Protein G.
Grade:	KO Validated

Target Details

Target:	IDH1
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Target Details

Alternative Name:	isocitrate dehydrogenase (NADP(+)) 1, cytosolic (IDH1 Products)
Background:	Synonyms: isocitrate dehydrogenase (NADP(+)) 1, cytosolic , HEL-216 , HEL-S-26 , IDCD , IDH , IDP , IDPC , PICD 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. [provided by RefSeq]
Molecular Weight:	47 kDa
Gene ID:	3417
UniProt:	O75874
Pathways:	Warburg Effect

Application Details

Application Notes:	WB: 1:500-1:10000. ICC/IF: 1:100-1:1000. IP: 1:100-1:1000. Optimal dilutions/concentrations should be determined by the researcher. Not tested in other applications.
Comment:	Positive Control: 293T , A431 , HeLa , HepG2 , PC-12 , Rat-2 , Neuro2A , GL261 , C8D30 , NIH-3T3 , Raw264.7 , C2C12 , Huh-7 Validation: Comparison, KO/KD, Overexpression
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	1 mg/mL
Buffer:	PBS, No Preservative

Handling

Preservative:	Without preservative
Storage:	4 °C,-20 °C
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.