

Datasheet for ABIN7602760

anti-IDH1 antibody (C-Term)



Overview

Quantity:	100 μg
Target:	IDH1
Binding Specificity:	C-Term
Reactivity:	Human, Mouse, Rat
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This IDH1 antibody is un-conjugated
Application:	Western Blotting (WB), Flow Cytometry (FACS), Immunofluorescence (IF), Immunocytochemistry (ICC)

Product Details

Purpose:	Anti-IDH1 Antibody Picoband® (monoclonal, 16H7)
Immunogen:	A synthetic peptide corresponding to a sequence at the C-terminus of human IDH1, different from the related mouse and rat sequences by one amino acid.
Clone:	16H7
Isotype:	IgG1
Cross-Reactivity (Details):	No cross-reactivity with other proteins.
Characteristics:	Anti-IDH1 Antibody Picoband® (monoclonal, 16H7) (ABIN7602760). Tested in Flow Cytometry, IF, ICC, WB applications. This antibody reacts with Human, Mouse, Rat. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing

Product Details	
	antibodies are designated as Picoband, ensuring unmatched performance.
Purification:	Immunogen affinity purified.
Target Details	
Target:	IDH1
Alternative Name:	IDH1 (IDH1 Products)
Background:	Synonyms: Cytosolic NADP isocitrate dehydrogenase antibody Cytosolic NADP-isocitrate
	dehydrogenase antibody Epididymis luminal protein 216 antibody Epididymis secretory protein
	Li 26 antibody HEL-216 antibody HEL-S-26 antibody ICDH antibody IDCD antibody IDH
	antibody IDH1 antibody IDHC_HUMAN antibody IDP antibody IDPC antibody Isocitrate
	dehydrogenase [NADP] cytoplasmic antibody Isocitrate dehydrogenase 1 (NADP+) soluble
	antibody NADP dependent isocitrate dehydrogenase cytosolic antibody NADP dependent
	isocitrate dehydrogenase peroxisomal antibody NADP (+)-specific ICDH
	antibody Oxalosuccinate decarboxylase antibody PICD antibody
	Tissue Specificity: Ubiquituous. Expressed in platelets.
	Background: Isocitrate dehydrogenase 1 (NADP+), soluble is an enzyme that in humans is
	encoded by the IDH1 gene. Isocitrate dehydrogenases catalyze the oxidative decarboxylation o
	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. Alternatively spliced
	transcript variants encoding the same protein have been found for this gene.
Molecular Weight:	47 kDa
Gene ID:	3417

075874

UniProt:

Target Details

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Pathways:	Warburg Effect	
Application Details		
Application Notes:	Western blot, 0.1-0.5 μg/mL, Human, Mouse, Rat	
	Immunocytochemistry/Immunofluorescence, 2 µg/mL, Human	
	Flow Cytometry (Fixed), 1-3 μg/1x10 ⁶ cells, Human	
	1. "Entrez Gene: Isocitrate dehydrogenase 1 (NADP+), soluble". 2. Watanabe T, Nobusawa S,	
	Kleihues P, Ohgaki H (April 2009). "IDH1 mutations are early events in the development of	
	astrocytomas and oligodendrogliomas.". Am J Pathol. 174 issue = 4 (4): 1149-53.	
Restrictions:	For Research Use only	
Handling		
Format:	Liquid	
Reconstitution:	Adding 0.2 mL of distilled water will yield a concentration of 500 μg/mL.	
Concentration:	500 μg/mL	
Buffer:	Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na2HPO4, 0.05 mg Sodium azide.	
Preservative:	Sodium azide	
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which	
	should be handled by trained staff only.	
Storage:	4 °C,-20 °C	
Storage Comment:	Store at -20°C for one year from date of receipt. After reconstitution, at 4°C for one month.	
	It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freeze-thaw	
	cycles.	