

Datasheet: VMA00143KT

Description:	ISOCITRATE DEHYDROGENASE 1 ANTIBODY WITH CONTROL LYSATE
Specificity:	ISOCITRATE DEHYDROGENASE 1
Format:	Purified
Product Type:	PrecisionAb Monoclonal
Clone:	OTI2H9
lsotype:	lgG1
Quantity:	2 Westerns

Product Details

Applications	This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit <u>www.bio-rad-antibodies.com/protocols</u> .					
		Yes	No	Not Determined	Suggested Dilution	
	Western Blotting	-			1/1000	
	PrecisionAb antibodies <u>application.</u> The antibod product has not been tes exclude its use in such p sample type.	dy has be sted for us	en validato se in a par	ed at the suggested dil ticular technique this d	ution. Where this loes not necessarily	
Target Species	Human					
Product Form	Purified IgG - liquid					
Preparation	20µl Mouse monoclonal	antibody	ourified by	/ affinity chromatograpl	hy from ascites.	
Buffer Solution	Phosphate buffered salir	ne				
Preservative Stabilisers	0.09% Sodium Azide (Na 1% Bovine Serum Albun 50% Glycerol	•				
Immunogen	Full-length protein expre dehydrogenase 1 expres			ansfected with human i	isocitrate	
External Database	UniProt:					

Links	O75874 Related reagents				
	Entrez Gene: <u>3417</u> IDH1 <u>Related reagents</u>				
Synonyms	PICD				
Specificity	Mouse anti Human isocitrate dehydrogenase 1 antibody recognizes isocitrate dehydrogenase 1, also known as NADP(+)-specific ICDH, NADP-dependent isocitrate dehydrogenase, cytosolic, NADP-dependent isocitrate dehydrogenase, peroxisomal, epididymis luminal protein 216, epididymis secretory protein Li 26, isocitrate dehydrogenase [NADP] cytoplasmic and oxalosuccinate decarboxylase.				
	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. Encoded by IDH1 gene, isocitrate dehydrogenase 1 is the NADP(+)-dependent isocitrate dehydrogenase 1 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 IDH1 (provided by RefSeq, Sep 2013).				
	Mouse anti Human isocitrate dehydrogenase 1 antibody detects a band of 46 kDa. The antibody has been extensively validated for western blotting using whole cell lysates.				
Western Blotting	Anti isocitrate dehydrogenase 1 detects a band of approximately 46 kDa in HepG2 cell lysates.				
Instructions For Use	Please refer to the <u>PrecisionAb western blotting protocol.</u> For additional information on secondary antibody dilution and exposure time see product web page.				
Lysate Composition	400μg HepG2 lysate lyophilized in RIPA buffer.				
Lysate Reconstitution	 If using DDT reconstitute the lyophilized lysate with 190µl DI H₂O, add 200µl 2x Laemmli Sample Buffer and 10µl 2M DTT. If using BME reconstitute the lyophilized lysate with 180µl DI H₂O, add 200µl 2x Laemmli Sample Buffer and 20µl BME. Heat at 95°C for 5 minutes. For 10 well mini gels load 25µl. For other gel and comb formats please refer to the PrecisionAb western blotting protocol. 				
Storage	Antibody: Store undiluted at -20°C, avoiding repeated freeze thaw cycles.				

	Lysate: Store lyophilized lysate at -20°C. After reconstitution aliquot and store at -20°C for up to 3 months or at -80°C for longer term storage.
Guarantee	As supplied, 12 months from date of despatch.
Acknowledgements	PrecisionAb [™] is a trademark of Bio-Rad Laboratories.
Health And Safety Information	Material Safety Datasheet documentation #10048 #10561 available at: Antibody (10048): <u>https://www.bio-rad-antibodies.com/uploads/MSDS/10048.pdf</u> Lysate Material (10561): <u>https://www.bio-rad-antibodies.com/uploads/MSDS/10561.pdf</u>
Regulatory	For research purposes only

Related Products

Recommended Secondary Antibodies

Goat Anti Mouse IgG (H/L) (STAR207...) HRP

Recommended Negative Controls

MOUSE IgG1 NEGATIVE CONTROL (MCA928)

North & South	Tel: +1 800 265 7376	Worldwide	Tel: +44 (0)1865 852 700	Europe	Tel: +49 (0) 89 8090 95 21
America	Fax: +1 919 878 3751		Fax: +44 (0)1865 852 739		Fax: +49 (0) 89 8090 95 50
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