

# Datasheet: VMA00143

Description:	MOUSE ANTI ISOCITRATE DEHYDROGENASE 1		
Specificity:	ISOCITRATE DEHYDROGENASE 1		
Format:	Purified		
Product Type:	PrecisionAb Monoclonal		
Clone:	OTI2H9		
Isotype:	lgG1		
Quantity:	100 µl		

### **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-</u>				
	rad-antibodies.com/protocols.				
		Yes	No	Not Determined	Suggested Dilution
	Western Blotting	•			1/1000
	how we validate our P	<b>'s ongoin</b> recisionA ique this c	<b>g antiboo b range.</b> loes not r	<b>dy validation program</b> Where this product has necessarily exclude its	nme. Click <u>here</u> to learn
Target Species	Human				
Product Form	Purified IgG - liquid				
Preparation	Mouse monoclonal antibody purified by affinity chromatography from ascites.				
Buffer Solution	Phosphate buffered saline				
Preservative	0.09% Sodium Azide (N	aN <sub>3</sub> )			
Stabilisers	1% Bovine Serum Albur	0,			
	50% Glycerol				
Immunogen	Full-length protein expre dehydrogenase 1 expre			ansfected with human	isocitrate
External Database	UniProt:				

Links	O75874 Related reagents					
	Entrez Gene:					
	<u>3417</u> IDH1 <u>Related reagents</u>					
Synonyms	PICD					
Specificity	<b>Mouse anti Human isocitrate dehydrogenase 1 antibody, clone OTI2H9</b> 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					
Storage	Store undiluted at -20°C, avoiding repeated freeze thaw cycles.					
Guarantee	12 months from date of despatch					
Acknowledgements	PrecisionAb is a trademark of Bio-Rad Laboratories.					
Health And Safety Information	Material Safety Datasheet documentation #10048 available at: Antibody (10048): <u>https://www.bio-rad-antibodies.com/uploads/MSDS/10048.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 Fax: +1 919 878 3751 America Email: antibody\_sales\_us@bio-rad.com

Worldwide

Tel: +44 (0)1865 852 700 Europe Fax: +44 (0)1865 852 739 Email: antibody\_sales\_uk@bio-rad.com

Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50 Email: antibody\_sales\_de@bio-rad.com

To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets 'M369938:200529'

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