

Datasheet: VMA00235

Description:	MOUSE ANTI ALDEHYDE DEHYDROGENASE 2				
Specificity:	ALDEHYDE DEHYDROGENASE 2				
Format:	Purified				
Product Type:	PrecisionAb Monoclonal				
Clone:	4G6A3				
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-rad-antibodies.com/protocols</u> .							
		Yes	No	Not Determined	Suggested Dilution			
	Western Blotting	-			1/1000			
	The PrecisionAb label	is reserve	d for an	tibodies that meet the	e defined performance			
	criteria within Bio-Rad	's ongoing	g antiboo	y validation program	ime. Click <u>here</u> to learn			
	how we validate our Pr	recisionAl	o range.	Where this product ha	s not been tested for			
	use in a particular techn	ique this d	oes not n	ecessarily exclude its	use in such procedures.			
	Further optimization may	y be requir	ed deper	ident on sample type.				
Target Species	Human							
Species Cross Reactivity	Reacts with: Mouse, Rat N.B. Antibody reactivity reactivity is derived from personal communication further information.	and workir testing wi	thin our la	aboratories, peer-revie	wed publications or			
Product Form	Purified IgG - liquid.							
Preparation	Mouse monoclonal antib ascites.	ody prepa	red by af	finity chromatography	on Protein G from			
Buffer Solution	Phosphate buffered salir	ne.						
Preservative Stabilisers	0.09% Sodium Azide (Na	aN ₃).						

Approx. Protein Concentrations	IgG concentration 0.5 mg/ml.					
Immunogen	Recombinant protein corresponding to amino acids 317-517 of human aldehyde dehydrogenase 2 expressed in <i>E. coli</i>					
External Database Links	UniProt: P05091 Related reagents Entrez Gene: 217 ALDH2 Related reagents					
Synonyms	ALDM					
Specificity	Mouse anti Human aldehyde dehydrogenase 2 antibody recognizes aldehyde dehydrogenase, mitochondrial, also known as ALDH class 2, acetaldehyde dehydrogenase 2, aldehyde dehydrogenase, mitochondrial, liver mitochondrial ALDH and nucleus-encoded mitochondrial aldehyde dehydrogenase 2. This protein belongs to the aldehyde dehydrogenase family of proteins. Aldehyde dehydrogenase is the second enzyme of the major oxidative pathway of alcohol metabolism. Two major liver isoforms of aldehyde dehydrogenase, cytosolic and mitochondrial can be distinguished by their electrophoretic mobilities, kinetic properties, and subcellular localizations. Most Caucasians have two major isozymes, while approximately 50% of Orientals have the cytosolic isozyme but not the mitochondrial isozyme. A remarkably higher frequency of acute alcohol intoxication among Orientals than among Caucasians could be related to the absence of a catalytically active form of the mitochondrial isozyme. The increased exposure to acetaldehyde in individuals with the catalytically inactive form may also confer greater susceptibility to many types of cancer. ALDH2 encodes a mitochondrial isoform, which has a low Km for acetaldehydes, and is localized in mitochondrial matrix. Alternative splicing results in multiple transcript variants encoding distinct isoforms (provided by RefSeq, Mar 2011). Mouse anti Human aldehyde dehydrogenase 2 antibody detects a band of 56 kDa. The antibody has been extensively validated for western blotting using whole cell lysates.					
Western Blotting	Anti aldehyde dehydrogenase 2 detects a band of approximately 56 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 #10040 available at: https://www.bio-rad-antibodies.com/SDS/VMA00235 Antibody (10040)					

Related Products

Recommended Secondary Antibodies

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

Recommended Negative Controls

MOUSE IgG1 NEGATIVE CONTROL (MCA928)

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America	Fax: +1 919 878 3751		Fax: +44 (0)1865 852 739		Fax: +49 (0) 89 8090 95 50
	Email: antibody_sales_us@bio-ra	d.com	Email: antibody_sales_uk@bio-ra	ad.com	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 'M429314:240410'

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