

Datasheet: VMA00254KT

Description:	ALDEHYDE DEHYDROGENASE 3 ANTIBODY WITH CONTROL LYSATE
Specificity:	ALDEHYDE DEHYDROGENASE 3
Format:	Purified
Product Type:	PrecisionAb Monoclonal
Clone:	OTI1B6
Isotype:	lgG2a
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 validat se in a par	ed at the suggested dil rticular technique this d	ution. Where this loes not necessarily	
Target Species	Human					
Product Form	Purified IgG - liquid					
Preparation	20µl Mouse monoclonal antibody purified by affinity chromatography from ascites					
Buffer Solution	Phosphate buffered salir	ıe				
Preservative Stabilisers	0.09% Sodium Azide (Na 1% Bovine Serum Albun 50% Glycerol	0,				
Immunogen	Full length recombinant HEK293T cells	human alo	dehyde de	ehydrogenase 3 (NP_0	00682) produced in	
External Database	UniProt:					

Links	P30838 Related reagents			
	Entrez Gene:			
	218 ALDH3A1 Related reagents			
Synonyms	ALDH3			
Specificity	Mouse anti Human aldehyde dehydrogenase 3 antibody recognizes the aldehyde dehydrogenase 3, also known as aldehyde dehydrogenase, dimeric NADP-preferring, aldehyde dehydrogenase isozyme 3, aldehyde dehydrogenase type III, aldehyde dehydrogenase, dimeric NADP-preferring and stomach aldehyde dehydrogenase.			
	Aldehyde dehydrogenases oxidize various aldehydes to the corresponding acids. They are involved in the detoxification of alcohol-derived acetaldehyde and in the metabolism of corticosteroids, biogenic amines, neurotransmitters, and lipid peroxidation. The enzyme encoded by ALDH3A1 gene forms a cytoplasmic homodimer that preferentially oxidizes aromatic and medium-chain (6 carbons or more) saturated and unsaturated aldehyde substrates. It is thought to promote resistance to UV and 4-hydroxy-2-nonenal-induced oxidative damage in the cornea. The gene is located within the Smith-Magenis syndrome region on chromosome 17. Multiple alternatively spliced variants, encoding the same protein, have been identified (provided by RefSeq, Sep 2008). Mouse anti Human aldehyde dehydrogenase 3 antibody detects a band of 50 kDa. The antibody has been extensively validated for western blotting using whole cell lysates.			
Western Blotting	Anti aldehyde dehydrogenase 3 detects a band of approximately 50 kDa in A549 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 A549 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	Material Safety Datasheet documentation #10048 #10561 available at:				
Information	Antibody (10048): https://www.bio-rad-antibodies.com/uploads/MSDS/10048.pdf				
	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 IgG2a NEGATIVE CONTROL (MCA929)

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
	Email: antibody_sales_us@bio-rad.com		Email: antibody_sales_uk@bio-rad.com		Email: antibody_sales_de@bio-rad.com

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