

# 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	
	<b>PrecisionAb antibodies</b> <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	<b>Mouse anti Human aldehyde dehydrogenase 3 antibody</b> 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	<ul> <li>If using DDT reconstitute the lyophilized lysate with 190µl DI H<sub>2</sub>O, add 200µl 2x Laemmli Sample Buffer and 10µl 2M DTT.</li> <li>If using BME reconstitute the lyophilized lysate with 180µl DI H<sub>2</sub>O, add 200µl 2x Laemmli Sample Buffer and 20µl BME.</li> <li>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.</li> </ul>			
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

From March 15, 2021, we will no longer supply printed datasheets with our products. Look out for updates on how to access your digital version at bio-rad-antibodies.com 'M350817:190315'

#### Printed on 10 Feb 2021

© 2021 Bio-Rad Laboratories Inc | Legal | Imprint