

Datasheet: MCA5641

Specificity:LIPOPROTEIN LIPASEFormat:PurifiedProduct Type:Monoclonal AntibodyClone:5D2Isotype:IgG1Quantity:0.2 mg	Description:	MOUSE ANTI LIPOPROTEIN LIPASE			
Product Type:Monoclonal AntibodyClone:5D2Isotype:IgG1	Specificity:	LIPOPROTEIN LIPASE			
Clone: 5D2 Isotype: IgG1	Format:	Purified			
Isotype: IgG1	Product Type:	Monoclonal Antibody			
	Clone:	5D2			
Quantity: 0.2 mg	Isotype:	lgG1			
	Quantity:	0.2 mg			

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	
	Flow Cytometry			•		
	Immunohistology - Frozen					
	Immunohistology - Paraffin					
	ELISA	-				
	Immunoprecipitation	-				
	Western Blotting	-				
	Where this product has r	not been te	ested for u	ise in a particular tech	nique this does not	
Target Species	a guide only. It is recomn system using appropriate Bovine			•	or use in their own	
Species Cross Reactivity	Reacts with: Rat, Human Does not react with:Mous N.B. Antibody reactivity a reactivity is derived from personal communications further information.	se and workir testing wi	ng conditic thin our la	ons may vary between boratories, peer-reviev	wed publications or	
Product Form	Purified IgG - liquid					
Preparation	Purified IgG prepared by supernatant	affinity ch	nromatogra	aphy on Protein G fron	n tissue culture	

Buffer Solution	Phosphate buffered saline			
Preservative Stabilisers	0.09% Sodium Azide (NaN ₃)			
Carrier Free	Yes			
Approx. Protein Concentrations	IgG concentration 1.0mg/ml			
Immunogen	Purified bovine milk lipoprotein lipase.			
External Database Links	UniProt: <u>P11151</u> <u>Related reagents</u> Entrez Gene: <u>280843</u> LPL <u>Related reagents</u>			
RRID	AB_10922752			
Specificity	 Mouse anti lipoprotein lipase antibody, clone 5D2 recognizes an epitope within amino acids 380-410 of lipoprotein lipase (LPL), a member of the AB hydrolase superfamily, which plays a pivotal role in lipoprotein metabolism and transport, acting as the key enzyme in the hydrolysis of triglycerides and very low density lipoproteins (VLDLs), and the release of free fatty acids into peripheral tissues. A deficiency of LPL can result in hypertriglyceridemia, and LPL plays a critical role in the pathogenesis of atherosclerosis, and in particular the relationship between LPL and apolipoprotein E (ApoE), both of which are secreted in significant amounts by macrophages in developing arterial wall lesions. Mouse anti Lipoprotein lipase antibody, clone 5D2 is a unique antibody which differentiates between monomeric inactive and dimeric active LPL, and binds to LPL sequences involved in LPL, LPL receptor, and heparin interactions. Mouse anti Lipoprotein lipase antibody, clone 5D2 inhibits the activity of human LPL (Chang <i>et al.</i> 1998). 			
ELISA	MCA5641 can be used in an indirect ELISA, or as the capture antibody in a sandwich ELISA with MCA5641B or MCA5641P as the detection reagent.			
Western Blotting	MCA5641 detects a band of approximately 53kDa using partially purified LPL from postheparin plasma.			
References	 Peterson, J. <i>et al.</i> (1992) Human lipoprotein lipase: relationship of activity, heparin affinity, and conformation as studied with monoclonal antibodies. <u>J Lipid Res. 33 (8):</u> <u>1165-70.</u> Chang, S.F. <i>et al.</i> (1998) Detailed characterization of the binding site of the lipoprotein lipase-specific monoclonal antibody 5D2. <u>J Lipid Res. 39 (12): 2350-9.</u> 			

	3. Hussain, M.M. <i>et al.</i> (2000) High affinity binding between lipoprotein lipase and lipoproteins involves multiple ionic and hydrophobic interactions, does not require enzyme activity, and is modulated by glycosaminoglycans. <u>J Biol Chem. 275 (38): 29324-30.</u>			
Storage	This product is shipped at ambient temperature. It is recommended to aliquot and store -20°C on receipt. When thawed, aliquot the sample as needed. Keep aliquots at 2-8°C short term use (up to 4 weeks) and store the remaining aliquots at -20°C.			
	Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended.			
Guarantee	12 months from date of despatch			
Health And Safety Information	Material Safety Datasheet documentation #10040 available at: https://www.bio-rad-antibodies.com/SDS/MCA5641 10040			
Regulatory	For research purposes only			

Related Products

Recommended Secondary Antibodies

Rabbit A	nti Mouse IgG (STAR12)	RPE					
Goat Anti Mouse IgG IgA IgM (STAR87) <u>Alk. Phos.</u> , <u>HRP</u>							
Goat Ant	i Mouse IgG (STAR76)	RPE					
Rabbit Ar	nti Mouse IgG (STAR13)	HRP					
Goat Ant	i Mouse IgG (STAR70)	<u>FITC</u>					
Goat Ant	i Mouse IgG (H/L) (STAR117)	Alk. Phos., DyLight®488, Dy	<u>yLight®550,</u>				
		DyLight®650, DyLight®680,	DyLight®800	<u>),</u>			
		<u>FITC, HRP</u>					
Goat Ant	i Mouse IgG (Fc) (STAR120)	<u>FITC, HRP</u>					
Goat Ant	i Mouse IgG (STAR77)	HRP					
Rabbit A	nti Mouse IgG (STAR9)	<u>FITC</u>					
Recommended Negative Controls							
MOUSE Id	G1 NEGATIVE CONTROL (MCA92	8)					
North & South	Tel: +1 800 265 7376 Worldwid	le 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-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 'M384295:210513'							
		Driveto de art 40, lora 0004					

Printed on 19 Jan 2024

© 2024 Bio-Rad Laboratories Inc | Legal | Imprint