

Datasheet: MCA5641P BATCH NUMBER 0710R

Description:	MOUSE ANTI LIPOPROTEIN LIPASE:HRP
Specificity:	LIPOPROTEIN LIPASE
Format:	HRP
Product Type:	Monoclonal Antibody
Clone:	5D2
Isotype:	lgG1
Quantity:	0.1 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		
	ELISA	•					
	Immunoprecipitation	•					
	Western Blotting	•					
	Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the product for use in their own system using appropriate negative/positive controls.						
Target Species	Bovine						
Species Cross Reactivity	Reacts with: Rat, Human, Chicken, Guinea Pig Does not react with:Mouse N.B. Antibody reactivity and working conditions may vary between species. Cross reactivity is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information.						
Product Form	Purified IgG conjugated to Horseradish Peroxidase (HRP) - liquid						
Preparation	Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant						
Buffer Solution	Phosphate buffered saline						

Preservative Stabilisers	0.01% Thiomersal HRP Stabiliser (<u>BUF052A</u>)
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_10963722
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 many studies have focused on the critical role which LPL plays 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 has been shown to inhibit the activity of human LPL (Chang <i>et al.</i> 1998).
ELISA	MCA5641P can be used in a direct ELISA, or as the detection reagent in a sandwich ELISA with MCA5641 or MCA5641GA as the capture antibody.
Western Blotting	MCA5641P 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. J Lipid Res. 33 (8): <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. J Lipid Res. 39 (12): 2350-9. 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. J Biol Chem. 275 (38): 29324-30.

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Health And SafetyMaterial Safety DatasheeInformation https://www.bio-rad-antib 10131					at:			
Regulatory Fo		For resear	ch purpose					
North & South America	Tel: +1 800 265 Fax: +1 919 878 Email: antibody		Worldwide	Tel: +44 (0)1865 852 700 Fax: +44 (0)1865 852 739 Email: antibody sales uk@bid	Europe	Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50 Email: antibody sales de@bio-rad.com		
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