

Datasheet: MCA5639B

Description:	MOUSE ANTI HUMAN APOLIPOPROTEIN E:Biotin
Specificity:	APOLIPOPROTEIN E
Format:	Biotin
Product Type:	Monoclonal Antibody
Clone:	WUE-4
lsotype:	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-</u> rad-antibodies.com/protocols.					
	· · · · ·	Yes	No	Not Determined	Suggested Dilution	
	Flow Cytometry					
	Immunohistology - Frozen			•		
	Immunohistology - Paraffin			-		
	ELISA	-				
	Immunoprecipitation					
	Western Blotting	•				
	Where this product has not been tested for use in a particular technique this does not					
Target Species	a guide only. It is recomn system using appropriate Human			•	or use in their own	
Species Cross Reactivity	Reacts with: Mouse Does not react with:Sea Lion, Harbour seal 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 t	o Biotin -	liquid			
Preparation	Purified IgG prepared by affinity chromatography on Protein A from tissue culture supernatant					

Buffer Solution	Phosphate buffered saline		
Preservative Stabilisers	0.09% Sodium Azide (NaN ₃) 1% Bovine Serum Albumin		
Approx. Protein Concentrations	IgG concentration 0.1 mg/ml		
Immunogen	Purified ApoHDL fraction.		
External Database Links	UniProt: P02649 Related reagents Entrez Gene: 348 APOE Related reagents		
RRID	AB_10851502		
Fusion Partners	Spleen cells from immunised Balb/c mice were fused with cells of the Sp2/O-Ag14 mouse myeloma cell line.		
Specificity	 Mouse anti Human Apolipoprotein E antibody, clone WUE-4 recognizes an epitope within amino acids 140-160 of human apolipoprotein E (Apo-E), a major component of very low-density lipoproteins (VLDLs). Apo-E is the principle apolipoprotein in the central nervous system, and is secreted by most organs into the plasma, playing a vital role in the binding, internalization and catabolism of triglyceride-rich lipoprotein constituents. Apo-E acts as a ligand for both the specific apo-E receptor (chylomicron remnant) of hepatic tissues, and the apoB,E (LDL) receptor. Three isoforms of Apo-E have been identified, ApoE2, E3 and E4, and have been linked with various disorders. ApoE2 has been shown to bind LPL receptors with low affinity, resulting in increased plasma cholesterol and triglyceride levels, and thereby an increased risk in cardiovascular disorders. ApoE4 is a high risk factor for Alzheimers disease (Sanan <i>et al.</i> 1994), and in particular late onset Alzheimer disease 2 (AD2), whilst ApoE3 is the most common isoform, and considered the normal/natural Apo-E genotype. Mouse anti Human Apolipoprotein E antibody, clone WUE-4 has been shown to inhibit Apo-E mediated binding of lipoproteins to the apoB,E cell receptor (Krul <i>et al.</i> 1998). 		
Western Blotting	MCA5639B detects a major band of approximately 34-36kDa in human liver cell lysates.		
References	 Davis, R.W. <i>et al.</i> (1991) Lipoproteins in pinnipeds: analysis of a high molecular weight form of apolipoprotein E. <u>J Lipid Res. 32 (6): 1013-23.</u> Fagan, A.M. <i>et al.</i> (2004) ApoAI deficiency results in marked reductions in plasma cholesterol but no alterations in amyloid-beta pathology in a mouse model of Alzheimer's disease-like cerebral amyloidosis. <u>Am J Pathol. 165: 1413-22.</u> Fryer, J.D. <i>et al.</i> (2005) The low density lipoprotein receptor regulates the level of central nervous system human and murine apolipoprotein E but does not modify amyloid 		

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