Datasheet: 0650-0050

BATCH NUMBER 173196

Description:	MOUSE ANTI HUMAN APOLIPOPROTEIN A1
Specificity:	APOLIPOPROTEIN A1
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	1C5 (G2)
Isotype:	IgG1
Quantity:	0.5 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 www.bio-rad-antibodies.com/protocols.

	Yes	No	Not Determined	Suggested Dilution
Immunohistology - Frozen	▪			1/40
Immunohistology - Paraffin			▪	
ELISA	▪			1/5000
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 the appropriate negative/positive controls.

Target Species	Human
Product Form	Purified IgG - lyophilized
Reconstitution	Reconstitute with 1.0ml distilled water Care should be taken during reconstitution as the protein may appear as a film at the bottom of the vial. Bio-Rad recommend that the vial is gently mixed after reconstitution.
Preparation	Purified IgG prepared by affinity chromatography on Protein A from ascites
Buffer Solution	0.01M Sodium Phosphate 0.01M Sodium Borate 0.15M Sodium Chloride

Preservative Stabilisers	1% Dextran 1% Mannitol
Immunogen	Native Apolipoprotein-A1 from human plasma
External Database Links	**UniProt:** P02647 Related reagents **Entrez Gene:** 335 APOA1 Related reagents
RRID	AB_620040
Specificity	**Mouse anti Human apolipoprotein A1, clone G2** recognizes Apolipoprotein A-1 (also known as Apo-A1) , a lipid-binding protein which enables the transport of dietary lipids for storage, metabolism and secretion. Apo-A1 plays an important part in the removal of cholesterol from cells. Mouse anti Human apolipoprotein A1, clone G2 reacts with both free human Apo-A1 and High Density Lipoprotein (HDL) bearing Apo-A1, but does not cross-react with ApoE, ApoB or albumin.
ELISA	This antibody is suitable for coating microtitre plates in a sandwich ELISA using catalogue number 0650-0190 for detection.
References	1. Derbali, H. *et al.* (2010) Increased biglycan in aortic valve stenosis leads to the overexpression of phospholipid transfer protein via Toll-like receptor 2. Am J Pathol. 176: 2638-45. 2. Mogilenko, D.A. *et al.* (2012) Endogenous apolipoprotein A-I stabilizes ATP-binding cassette transporter A1 and modulates Toll-like receptor 4 signaling in human macrophages. FASEB J. 26: 2019-30. 3. Berge, K.E. *et al.* (2014) Type 1 hyperlipoproteinemia due to a novel deletion of exons 3 and 4 in the GPIHBP1 gene. Atherosclerosis. 234 (1): 30-3. 4. Pingitore, P. *et al.* (2016) Identification and characterization of two novel mutations in the LPL gene causing type I hyperlipoproteinemia. J Clin Lipidol. 10 (4): 816-23. 5. Shavva, V.S. *et al.* (2016) PPARγ Represses Apolipoprotein A-I Gene but Impedes TNFα-Mediated ApoA-I Downregulation in HepG2 Cells. J Cell Biochem. 117 (9): 2010-22. 6. Shavva, V.S. *et al.* (2018) Tumor necrosis factor α stimulates endogenous apolipoprotein A-I expression and secretion by human monocytes and macrophages: role of MAP-kinases, NF-κB, and nuclear receptors PPARα and LXRs. Mol Cell Biochem. 448 (1-2): 211-223. 7. Botta, M. *et al.* (2019) Deciphering the role of V200A and N291S mutations leading to LPL deficiency. Atherosclerosis. 282: 45-51. 8. Varela, L.M. *et al.* (2020) Changes in High-Density Lipoproteins Related to Outcomes in Patients with Acute Stroke. J Clin Med. 9 (7): 2269. 9. Zha, Y. *et al.* (2021) CRISPR/Cas9-mediated knockout of APOC3 stabilizes plasma lipids and inhibits atherosclerosis in rabbits. Lipids Health Dis. 20 (1): 180.

10. Zhang, T. *et al.* (2020) Hyperhomocysteinemia and dyslipidemia in point mutation G307S of cystathionine β-synthase-deficient rabbit generated using CRISPR/Cas9. Lipids Health Dis. 19 (1): 224.
11. Souza,T.F.G. *et al.* (2026) Human breast milk extracellular vesicles from donors with asthma differentially the modulate release of inflammatory cytokines by primary human airway smooth muscle cells in a recipient-cell specific manner. bioRxiv. 04 Mar [Epub ahead of print].

Storage	This product is shipped at ambient temperature. Prior to reconstitution store at +4°C. After reconstitution store at -20°C. Storage in frost-free freezers is not recommended. Avoid repeated freezing and thawing as this may denature the antibody.
Guarantee	Guaranteed until date of expiry. Please see product label.
Health And Safety Information	Material Safety Datasheet documentation #20482 available at: https://www.bio-rad-antibodies.com/SDS/0650-0050
Regulatory	For research purposes only

Related Products

Recommended Secondary Antibodies

Goat Anti Mouse IgG IgA IgM (STAR87...)	HRP
Goat Anti Mouse IgG (STAR70...)	FITC
Goat Anti Mouse IgG (STAR77...)	HRP
Goat Anti Mouse IgG (STAR76...)	RPE
Rabbit Anti Mouse IgG (STAR12...)	RPE
Rabbit Anti Mouse IgG (STAR13...)	HRP
Rabbit Anti Mouse IgG (STAR9...)	FITC
Goat Anti Mouse IgG (Fc) (STAR120...)	FITC, HRP
Goat Anti Mouse IgG (H/L) (STAR117...)	Alk. Phos., DyLight®488, DyLight®550, DyLight®650, DyLight®680, DyLight®800, FITC, HRP

Recommended Negative Controls

MOUSE IgG1 NEGATIVE CONTROL (MCA928)

Product inquiries: www.bio-rad-antibodies.com/technical-support

To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets

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