

Datasheet: 0650-0050

**BATCH NUMBER 162194**

<b>Description:</b>	MOUSE ANTI HUMAN APOLIPOPROTEIN A1
<b>Specificity:</b>	APOLIPOPROTEIN A1
<b>Format:</b>	Purified
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	G2
<b>Isotype:</b>	IgG1
<b>Quantity:</b>	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](http://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.

<b>Target Species</b>	Human
<b>Product Form</b>	Purified IgG - lyophilized
<b>Reconstitution</b>	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.
<b>Preparation</b>	Purified IgG prepared by affinity chromatography on Protein A from ascites
<b>Buffer Solution</b>	0.01M Sodium Phosphate 0.01M Sodium Borate 0.15M Sodium Chloride

<b>Preservative</b>	1% Dextran
<b>Stabilisers</b>	1% Mannitol
<b>Immunogen</b>	Native Apolipoprotein-A1 from human plasma
<b>External Database Links</b>	<p><b>UniProt:</b>  <a href="#">P02647</a>    <a href="#">Related reagents</a></p> <p><b>Entrez Gene:</b>  <a href="#">335</a> APOA1    <a href="#">Related reagents</a></p>
<b>RRID</b>	AB_620040
<b>Specificity</b>	<p><b>Mouse anti Human Apolipoprotein A1, clone G2</b> 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.</p> <p>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.</p>
<b>ELISA</b>	This antibody is suitable for coating microtitre plates in a sandwich ELISA using catalogue number <a href="#">0650-0190</a> for detection.
<b>References</b>	<ol style="list-style-type: none"> <li>Derbali, H. <i>et al.</i> (2010) Increased biglycan in aortic valve stenosis leads to the overexpression of phospholipid transfer protein via Toll-like receptor 2. <a href="#">Am J Pathol. 176: 2638-45.</a></li> <li>Mogilenko, D.A. <i>et al.</i> (2012) Endogenous apolipoprotein A-I stabilizes ATP-binding cassette transporter A1 and modulates Toll-like receptor 4 signaling in human macrophages. <a href="#">FASEB J. 26: 2019-30.</a></li> <li>Shavva, V.S. <i>et al.</i> (2016) PPAR<math>\gamma</math> Represses Apolipoprotein A-I Gene but Impedes TNF<math>\alpha</math>-Mediated ApoA-I Downregulation in HepG2 Cells. <a href="#">J Cell Biochem. 117 (9): 2010-22.</a></li> <li>Pingitore, P. <i>et al.</i> (2016) Identification and characterization of two novel mutations in the LPL gene causing type I hyperlipoproteinemia. <a href="#">J Clin Lipidol. 10 (4): 816-23.</a></li> <li>Berge, K.E. <i>et al.</i> (2014) Type 1 hyperlipoproteinemia due to a novel deletion of exons 3 and 4 in the GPIHBP1 gene. <a href="#">Atherosclerosis. 234 (1): 30-3.</a></li> <li>Botta, M. <i>et al.</i> (2019) Deciphering the role of V200A and N291S mutations leading to LPL deficiency. <a href="#">Atherosclerosis. 282: 45-51.</a></li> </ol>
<b>Storage</b>	<p>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.</p>
<b>Guarantee</b>	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>  
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**Regulatory** For research purposes only

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## Related Products

### Recommended Secondary Antibodies

Goat Anti Mouse IgG (STAR77...)	<a href="#">HRP</a>
Rabbit Anti Mouse IgG (STAR12...)	<a href="#">RPE</a>
Rabbit Anti Mouse IgG (STAR8...)	<a href="#">DyLight@800</a>
Goat Anti Mouse IgG (STAR76...)	<a href="#">RPE</a>
Goat Anti Mouse IgG (Fc) (STAR120...)	<a href="#">FITC</a> , <a href="#">HRP</a>
Goat Anti Mouse IgG IgA IgM (STAR87...)	<a href="#">Alk. Phos.</a> , <a href="#">HRP</a>
Rabbit Anti Mouse IgG (STAR13...)	<a href="#">HRP</a>
Goat Anti Mouse IgG (H/L) (STAR117...)	<a href="#">Alk. Phos.</a> , <a href="#">DyLight@488</a> , <a href="#">DyLight@550</a> , <a href="#">DyLight@650</a> , <a href="#">DyLight@680</a> , <a href="#">DyLight@800</a> , <a href="#">FITC</a> , <a href="#">HRP</a>
Goat Anti Mouse IgG (STAR70...)	<a href="#">FITC</a>
Rabbit Anti Mouse IgG (STAR9...)	<a href="#">FITC</a>

### Recommended Negative Controls

[MOUSE IgG1 NEGATIVE CONTROL \(MCA928\)](#)

<b>North &amp; South America</b>	Tel: +1 800 265 7376 Fax: +1 919 878 3751 Email: <a href="mailto:antibody_sales_us@bio-rad.com">antibody_sales_us@bio-rad.com</a>	<b>Worldwide</b>	Tel: +44 (0)1865 852 700 Fax: +44 (0)1865 852 739 Email: <a href="mailto:antibody_sales_uk@bio-rad.com">antibody_sales_uk@bio-rad.com</a>	<b>Europe</b>	Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50 Email: <a href="mailto:antibody_sales_de@bio-rad.com">antibody_sales_de@bio-rad.com</a>
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To find a batch/lot specific datasheet for this product, please use our online search tool at: [bio-rad-antibodies.com/datasheets](https://www.bio-rad-antibodies.com/datasheets)  
'M391122:211008'

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