

Datasheet: MCA4653

**BATCH NUMBER 147498**

<b>Description:</b>	MOUSE ANTI HUMAN ADIPONECTIN
<b>Specificity:</b>	ADIPONECTIN
<b>Other names:</b>	ADIPOQ
<b>Format:</b>	Purified
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	Adn36
<b>Isotype:</b>	IgG2a
<b>Quantity:</b>	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 [www.bio-rad-antibodies.com/protocols](http://www.bio-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 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.

<b>Target Species</b>	Human
<b>Product Form</b>	Purified IgG - liquid
<b>Preparation</b>	Purified IgG prepared by affinity chromatography on Protein A from tissue culture supernatant
<b>Buffer Solution</b>	Phosphate buffered saline
<b>Preservative Stabilisers</b>	0.09% Sodium Azide (NaN <sub>3</sub> )

<b>Approx. Protein Concentrations</b>	IgG concentration 1.0mg/ml
<b>Immunogen</b>	Recombinant human adiponectin purified from <i>E.coli</i> .
<b>External Database Links</b>	<p><b>UniProt:</b>  <a href="#">Q15848</a>    <a href="#">Related reagents</a></p> <p><b>Entrez Gene:</b>  <a href="#">9370</a>    ADIPOQ    <a href="#">Related reagents</a></p>
<b>Synonyms</b>	ACDC, ACRP30, APM1, GBP28
<b>RRID</b>	AB_2221632
<b>Fusion Partners</b>	Spleen cells from immunised Balb/c mice were fused with cells of the mouse Sp2/0 myeloma cell line.
<b>Specificity</b>	<p><b>Mouse anti Human Adiponectin antibody, clone Adn36</b> recognizes human adiponectin, also known as Acrp30, 30 kDa adipocyte complement-related protein, Adipocyte, C1q and collagen domain-containing protein or Gelatin-binding protein. Adiponectin is a 244 amino acid major adipokine secreted into the bloodstream from adipose tissue to modulate metabolism, including glucose regulation and fatty acid catabolism (<a href="#">UniProt: Q15848</a>). Adiponectin circulates as three distinct oligomeric forms, trimers (LMW), hexamers (MMW) and dodecamers-octodecamers (HMW) with distinct functions in various target tissues (<a href="#">Wang et al. 2008</a>).</p> <p>Adiponectin is involved in regulation of circulating glucose levels and in regulation of insulin sensitivity. Concentrations of adiponectin are reduced in obesity associated metabolic and vascular disorders (<a href="#">Fasshauer et al. 2004</a>) in particular lower circulating levels of HMW adiponectin correlates with the appearance of type II diabetes and acts as a predictor for this condition (<a href="#">Zhu et al. 2010</a>).</p> <p>Mouse anti human adiponectin antibody, clone Adn36 has been used successfully in the development of a sensitive sandwich ELISA in conjunction with Mouse anti Human adiponectin antibody, clone 5H7 (<a href="#">MCA2695</a>) as a detection reagent for the measurement of circulating levels of adiponectin in human serum.</p>
<b>References</b>	<ol style="list-style-type: none"> <li>1. Lihn, A.S. <i>et al.</i> (2005) Adiponectin: action, regulation and association to insulin sensitivity. <a href="#">Obes Rev. 6 (1): 13-21.</a></li> <li>2. Trayhurn, P. &amp; Wood, I.S. (2005) Signalling role of adipose tissue: adipokines and inflammation in obesity. <a href="#">Biochem Soc Trans. 33 (Pt 5): 1078-81.</a></li> </ol>
<b>Storage</b>	<p>Store at +4°C or at -20°C if preferred.</p> <p>Storage in frost-free freezers is not recommended.</p> <p>This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend</p>

microcentrifugation before use.

---

<b>Guarantee</b>	12 months from date of despatch
------------------	---------------------------------

---

<b>Health And Safety Information</b>	Material Safety Datasheet documentation #10040 available at: <a href="https://www.bio-rad-antibodies.com/SDS/MCA4653">https://www.bio-rad-antibodies.com/SDS/MCA4653</a> 10040
--------------------------------------	--

---

<b>Regulatory</b>	For research purposes only
-------------------	----------------------------

---

## Related Products

### Recommended Secondary Antibodies

Goat Anti Mouse IgG (STAR77...)	<a href="#">HRP</a>
Rabbit Anti Mouse IgG (STAR12...)	<a href="#">RPE</a>
Goat Anti Mouse IgG IgA IgM (STAR87...)	<a href="#">Alk. Phos.</a> , <a href="#">HRP</a>
Goat Anti Mouse IgG (STAR76...)	<a href="#">RPE</a>
Goat Anti Mouse IgG (Fc) (STAR120...)	<a href="#">FITC</a> , <a href="#">HRP</a>
Rabbit Anti Mouse IgG (STAR13...)	<a href="#">HRP</a>
Goat Anti Mouse IgG (STAR70...)	<a href="#">FITC</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>
Rabbit Anti Mouse IgG (STAR9...)	<a href="#">FITC</a>

<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>
----------------------------------	---	------------------	---	---------------	---

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)  
'M367816:200529'

Printed on 12 Aug 2023