

Datasheet: MCA4653

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| Description: | MOUSE ANTI HUMAN ADIPONECTIN |
| Specificity: | ADIPONECTIN |
| Other names: | ADIPOQ |
| Format: | Purified |
| Product Type: | Monoclonal Antibody |
| Clone: | Adn36 |
| Isotype: | IgG2a |
| Quantity: | 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.

| | 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.

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| Target Species | Human |
| Product Form | Purified IgG - liquid |
| Preparation | Purified IgG prepared by affinity chromatography on Protein A from tissue culture supernatant |
| Buffer Solution | Phosphate buffered saline |
| Preservative Stabilisers | <0.1% Sodium Azide (NaN ₃) |

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| Approx. Protein Concentrations | IgG concentration 1.0mg/ml |
| Immunogen | Recombinant human adiponectin purified from <i>E.coli</i> . |
| External Database Links | <p>UniProt: Q15848 Related reagents</p> <p>Entrez Gene: 9370 ADIPOQ Related reagents</p> |
| Synonyms | ACDC, ACRP30, APM1, GBP28 |
| RRID | AB_2221632 |
| Fusion Partners | Spleen cells from immunised Balb/c mice were fused with cells of the mouse Sp2/0 myeloma cell line. |
| Specificity | <p>Mouse anti Human Adiponectin antibody, clone Adn36 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 (UniProt: Q15848). Adiponectin circulates as three distinct oligomeric forms, trimers (LMW), hexamers (MMW) and dodecamers-octodecamers (HMW) with distinct functions in various target tissues (Wang et al. 2008).</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 (Fasshauer et al. 2004) in particular lower circulating levels of HMW adiponectin correlates with the appearance of type II diabetes and acts as a predictor for this condition (Zhu et al. 2010).</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 (MCA2695) as a detection reagent for the measurement of circulating levels of adiponectin in human serum.</p> |
| References | <ol style="list-style-type: none"> 1. Lihn, A.S. <i>et al.</i> (2005) Adiponectin: action, regulation and association to insulin sensitivity. Obes Rev. 6 (1): 13-21. 2. Trayhurn, P. & Wood, I.S. (2005) Signalling role of adipose tissue: adipokines and inflammation in obesity. Biochem Soc Trans. 33 (Pt 5): 1078-81. |
| Storage | This product is shipped at ambient temperature. It is recommended to aliquot and store at -20°C on receipt. When thawed, aliquot the sample as needed. Keep aliquots at 2-8°C for short term use (up to 4 weeks) and store the remaining aliquots at -20°C. |

Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended.

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| Guarantee | 12 months from date of despatch |
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| Health And Safety Information | Material Safety Datasheet documentation #10040 available at: https://www.bio-rad-antibodies.com/SDS/MCA4653 10040 |
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| Regulatory | For research purposes only |
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Related Products

Recommended Secondary Antibodies

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|---|---|
| Goat Anti Mouse IgG (STAR77...) | HRP |
| Rabbit Anti Mouse IgG (STAR12...) | RPE |
| Rabbit Anti Mouse IgG (STAR8...) | DyLight@800 |
| Goat Anti Mouse IgG (STAR76...) | RPE |
| Human Anti Mouse IgG2a (HCA037...) | HRP |
| Goat Anti Mouse IgG (Fc) (STAR120...) | FITC , HRP |
| Goat Anti Mouse IgG IgA IgM (STAR87...) | Alk. Phos. , HRP |
| Rabbit Anti Mouse IgG (STAR13...) | HRP |
| Goat Anti Mouse IgG (STAR70...) | FITC |
| Rabbit Anti Mouse IgG (STAR9...) | FITC |
| 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 IgG2a NEGATIVE CONTROL \(MCA929\)](#)

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| North & South America | Tel: +1 800 265 7376 Fax: +1 919 878 3751 Email: antibody_sales_us@bio-rad.com | Worldwide | Tel: +44 (0)1865 852 700 Fax: +44 (0)1865 852 739 Email: antibody_sales_uk@bio-rad.com | 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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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)
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