# Datasheet: MCA6175B

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| **Description:** | MOUSE ANTI HUMAN ADIPONECTIN:Biotin |
| **Specificity:** | ADIPONECTIN |
| **Format:** | Biotin |
| **Product Type:** | Monoclonal Antibody |
| **Clone:** | D02-7B10 |
| **Isotype:** | IgG1 |
| **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 www.bio-rad-antibodies.com/protocols.

| | Yes | No | Not Determined | Suggested Dilution |
|---|---|---|---|---|
| ELISA | ▪ | | | 1.0 ug/ml |

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.

**Target Species**

Human

**Product Form**

Purified IgG conjugated to Biotin - liquid

**Preparation**

Purified IgG prepared by affinity chromatography on Protein G 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**

*E. coli* derived recombinant human adiponectin (Glu19-Asn244).

**External Database Links**

**UniProt:**

Q15848 Related reagents

**Entrez Gene:**

9370 ADIPOQ Related reagents

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| **Synonyms** | ACDC, ACRP30, APM1, GBP28 |
| **Fusion Partners** | Cell fusion between immunized BALB/c mouse spleen cells and mouse myeloma SP2/0 |
| **Specificity** | **Mouse anti Human adiponectin antibody, cloneD02-7B10,** recognizes adiponectin, also known as ACRP30, apM-1, ADIPOQ. Adiponectin is a fat-derived hormone which suppresses glucose production in the liver and enhances fatty acid oxidation in skeletal muscle, and acts as a messenger to allow communication between adipose tissue and other organs (Wang and Scherer, 2016). Adiponectin can elicit several downstream signaling events, including the insulin signaling pathway. Anti-diabetic, anti-inflammatory, and anti-atherogenic effects of adiponectin have been identified, and the protein sensitizes cells to insulin. Decreased adiponecin levels may play a role in development of type 2 diabetes, and therefore, adiponectin has been suggested as a potential therapeutic target for diabetes (Achari and Jain 2017).<br><br>The biotinylated Mouse anti Human adiponectin antibody, clone D02-7B10 (MCA6175B) can be used as a detection antibody in a sandwich ELISA with the purified Mouse anti Human adiponectin antibody, clone D05-9C7 (MCA6174GA) as the capture antibody. |
| **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.<br><br>Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended. |
| **Guarantee** | 12 months from date of despatch |
| **Health And Safety Information** | Material Safety Datasheet documentation #10041 available at: https://www.bio-rad-antibodies.com/SDS/MCA6175B<br>10041 |
| **Regulatory** | For research purposes only |

## Related Products

### Recommended Useful Reagents

MOUSE ANTI HUMAN ADIPONECTIN (MCA6174GA)

### ELISA Matched Pair - Capture Antibody

MOUSE ANTI HUMAN ADIPONECTIN (MCA6174GA)

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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