

## Datasheet: AAR40

**BATCH NUMBER 160920**

|                      |                      |
|----------------------|----------------------|
| <b>Description:</b>  | GOAT ANTI RAT LEPTIN |
| <b>Specificity:</b>  | LEPTIN               |
| <b>Format:</b>       | Purified             |
| <b>Product Type:</b> | Polyclonal Antibody  |
| <b>Isotype:</b>      | Polyclonal IgG       |
| <b>Quantity:</b>     | 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](http://www.bio-rad-antibodies.com/protocols).

|                            | Yes | No | Not Determined | Suggested Dilution |
|----------------------------|-----|----|----------------|--------------------|
| Flow Cytometry             |     |    | ▪              |                    |
| Immunohistology - Frozen   |     |    | ▪              |                    |
| Immunohistology - Paraffin |     |    | ▪              |                    |
| ELISA                      | ▪   |    |                | 0.5 - 2.0ug/ml     |
| Immunoprecipitation        |     |    | ▪              |                    |
| Western Blotting           | ▪   |    |                | 0.1 - 0.2ug/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.

|                              |  |
|------------------------------|--|
| <b>Target Species</b>        | Rat  |
| <b>Product Form</b>          | Purified IgG - lyophilised   |
| <b>Reconstitution</b>        | <p>Reconstitute with 0.1ml distilled water</p> <p>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. For long term storage the addition of 0.09% sodium azide is recommended.</p> |
| <b>Antiserum Preparation</b> | Antiserum to rat Leptin were raised by repeated immunisation of goats with highly purified antigen. Purified IgG was prepared by affinity chromatography.  |
| <b>Buffer Solution</b>       | Phosphate buffered saline  |

|                                       |  |
|---------------------------------------|--|
| <b>Preservative Stabilisers</b>       | None present   |
| <b>Carrier Free</b>                   | Yes  |
| <b>Approx. Protein Concentrations</b> | IgG concentration 1.0mg/ml after reconstitution  |
| <b>Immunogen</b>                      | Recombinant rat leptin.  |
| <b>External Database Links</b>        | <p><b>UniProt:</b><br/> <a href="#">P50596</a>    <a href="#">Related reagents</a></p> <p><b>Entrez Gene:</b><br/> <a href="#">25608</a>    Lep    <a href="#">Related reagents</a></p>  |
| <b>Synonyms</b>                       | Ob   |
| <b>RRID</b>                           | AB_2136211   |
| <b>Specificity</b>                    | <p><b>Goat anti Rat Leptin antibody</b> specifically recognizes rat leptin, a major adipose-derived hormone and member of the leptin family, which plays a key role in appetite control and the regulation of energy expenditure.</p> <p>Leptin is a recognized marker of obesity, which signals through binding to the obesity receptor (OB-R) in the hypothalamus. Human studies have shown a correlation between circulating levels of leptin and body fat mass, and defects in leptin production result in severe obesity. Regulators of leptin expression include insulin, cortisol, cAMP and thiazolidinediones.</p> |
| <b>References</b>                     | 1. Hue-beauvais, C. <i>et al.</i> (2019) Impact of exposure to diesel exhaust during pregnancy on mammary gland development and milk composition in the rabbit. <a href="#">PLoS One. 14 (2): e0212132.</a>  |
| <b>Storage</b>                        | <p>Prior to reconstitution store at -20°C.<br/> After reconstitution store at -20°C.</p> <p>This product should be stored undiluted. Storage in frost-free freezers is not recommended. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.</p>  |
| <b>Guarantee</b>                      | 12 months from date of despatch  |
| <b>Health And Safety Information</b>  | Material Safety Datasheet documentation #10162 available at: <a href="https://www.bio-rad-antibodies.com/SDS/AAR4010162">https://www.bio-rad-antibodies.com/SDS/AAR4010162</a>   |
| <b>Regulatory</b>                     | For research purposes only   |

## Related Products

### Recommended Secondary Antibodies

Rabbit Anti Goat IgG (Fc) (STAR122...) [FITC](#), [HRP](#)

**North & South** Tel: +1 800 265 7376

**America** Fax: +1 919 878 3751

Email: [antibody\\_sales\\_us@bio-rad.com](mailto: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](mailto: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](mailto:antibody_sales_de@bio-rad.com)

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

'M372453:200706'

Printed on 12 Aug 2023

---

© 2023 Bio-Rad Laboratories Inc | [Legal](#) | [Imprint](#)