

## Rabbit anti-Mouse Leptin Receptor Polyclonal Antibody | anti-LEPR antibody

Anti-Leptin Receptor Antibody, Rabbit Polyclonal

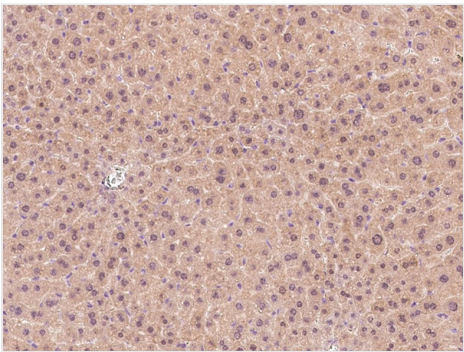
|                               |                       |                            |                                                           |
|-------------------------------|-----------------------|----------------------------|-----------------------------------------------------------|
| CATALOG #<br><b>AAA255079</b> | HOST<br><b>Rabbit</b> | REACTIVITY<br><b>Mouse</b> | APPLICATIONS<br><b>Immunohistochemistry, Western Blot</b> |
|-------------------------------|-----------------------|----------------------------|-----------------------------------------------------------|

### PRODUCT SYNONYMS

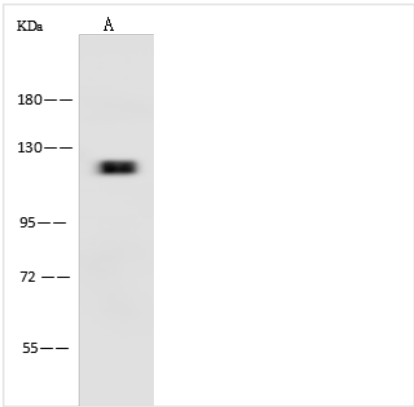
Leptin Receptor; Polyclonal Antibody; Anti-Leptin Receptor Antibody; Rabbit Polyclonal; Leptin Receptor/LEPR Antibody; Rabbit PAb; Antigen Affinity Purified; leptin receptor; Anti-db Antibody; Anti-diabetes Antibody; Anti-Leprb Antibody; Anti-LEPROT Antibody; Anti-Modb1 Antibody; Anti-OB-RGRP Antibody; Anti-obese-like Antibody; Anti-obl Antibody; Anti-Obr Antibody; anti-LEPR antibody

### PRODUCT SPECIFICATIONS

|                                                |                                                                                                                                                                                                                                                    |
|------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                           | Rabbit                                                                                                                                                                                                                                             |
| Reactivity                                     | Mouse                                                                                                                                                                                                                                              |
| Clonality                                      | Polyclonal                                                                                                                                                                                                                                         |
| Isotype                                        | Rabbit IgG                                                                                                                                                                                                                                         |
| Specificity                                    | Mouse Leptin Receptor/LEPR                                                                                                                                                                                                                         |
| Purity/Purification                            | Protein A & Antigen Affinity                                                                                                                                                                                                                       |
| Form/Format                                    | Liquid; PBS, pH7.0 with 0.03% Proclin300                                                                                                                                                                                                           |
| Applicable Applications for anti-LEPR antibody | IHC (Immunohistochemistry), WB (Western Blot)                                                                                                                                                                                                      |
| Immunogen                                      | A synthetic peptide corresponding to the center region of the Mouse Leptin Receptor/LEPR                                                                                                                                                           |
| Conjugation                                    | Unconjugated                                                                                                                                                                                                                                       |
| Preparation                                    | Produced in rabbits immunized with a synthetic peptide corresponding to the center region of the Mouse Leptin Receptor/LEPR, and purified by antigen affinity chromatography.                                                                      |
| Preparation and Storage                        | This antibody can be stored at 2-8 degree C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20 degree C to -80 degree C. Avoid repeated freeze-thaw cycles. |



**IHC (Immunohistochemistry)**  
Immunochemical staining of mouse LEPR in mouse liver with rabbit polyclonal antibody at 1:300 dilution, formalin-fixed paraffin embedded sections.



**WB (Western Blot)**  
Anti-LEPR rabbit polyclonal antibody at 1:500 dilution  
Lane A: Mouse brain tissue lysate  
Lysates/proteins at 30 ug per lane. Secondary Goat Anti-Rabbit IgG (H+L)/HRP at 1/10000 dilution. Developed using the ECL technique. Performed under reducing conditions. Predicted band size: 132 kDa Observed band size: 125 kDa

ADDITIONAL INFORMATION

|                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|----------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for anti-LEPR antibody | Leptin Receptor or CD295 belongs to the gp130 family of cytokine receptors that are known to stimulate gene transcription via activation of cytosolic STAT proteins. This protein is a receptor for leptin (an adipocyte-specific hormone that regulates body weight) and is involved in the regulation of fat metabolism, as well as in a novel hematopoietic pathway that is required for normal lymphopoiesis. Leptin Receptor/CD295 is transmembrane catalytic receptors found on NPY/AgRP and alpha-MSH/CART neurons in hypothalamic nuclei. Leptin receptors (Ob-Rs) are coded for by one human gene that produces six different isoforms; Ob-Ra-Ob-Rf. Ob-Rs exist as constitutive dimers at physiological expression levels. Only the Ob-Rb isoform can transduce intracellular signals and does so through activation of the JAK2/STAT3, PI 3-K, and MAPK signaling cascades. Activation of Ob-Rs mediates transcriptional regulation of the hypothalamic melanocortin pathway and downregulates endocannabinoid expression. Leptin acts via leptin receptors. Leptin resistance has been proposed as a pathophysiological mechanism of obesity. In obese individuals, Ob-Ra (which is involved in the active transport of leptin across the blood-brain barrier) expression is downregulated and the individual may be unresponsive to leptin signals. Ob-R antagonists are of great interest in the development of pharmacological treatments for obesity. Mutations in the Leptin Receptor/CD295 have been associated with obesity and pituitary dysfunction. |
| References                                         | Heshka JT, et al. (2001) A role for dietary fat in leptin receptor, OB-Rb, function. Life Sci. 69 (9): 987-1003. Chen H, et al (1996) Evidence that the diabetes gene encodes the leptin receptor: identification of a mutation in the leptin receptor gene in db/db mice. Cell. 84 (3): 491-5. Bjorbaek C, et al. (1998) Divergent signaling capacities of the long and short isoforms of the leptin receptor. J Biol Chem. 272 (51): 32686-95.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |

NCBI AND UNIPROT INFORMATION

|                                  |                                                                                 |
|----------------------------------|---------------------------------------------------------------------------------|
| NCBI GI #                        | 1352612                                                                         |
| NCBI GeneID                      | 16847                                                                           |
| UniProt Accession #              | P48356; O35686; O54986; Q61215; Q64309; Q9QWG3; Q9QWV5                          |
| Molecular Weight                 | 90,887 Da                                                                       |
| NCBI Official Full Name          | Leptin receptor                                                                 |
| NCBI Official Synonym Full Names | leptin receptor                                                                 |
| NCBI Official Symbol             | Lepr                                                                            |
| NCBI Official Synonym Symbols    | db; Obr; obl; Leprb; Modb1; LEPROT; OB-RGRP; diabetes; obese-like               |
| NCBI Protein Information         | leptin receptor; B219; LEP-R; OB receptor; leptin receptor gene-related protein |
| UniProt Protein Name             | Leptin receptor                                                                 |

|                            |                      |
|----------------------------|----------------------|
| UniProt Gene Name          | Lepr                 |
| UniProt Synonym Gene Names | Db; Obr; LEP-R; OB-R |
| UniProt Entry Name         | LEPR_MOUSE           |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | [contact@aaabiotech.com](mailto:contact@aaabiotech.com)

Online datasheet: <https://www.aaabiotech.com/polyclonal/leptin-receptor-antibody-immunohistochemistry-western-blot-elisa/255079>