abcam

## Product datasheet

# Anti-Leptin Receptor antibody [RM0085-9C29] ab86060

### Overview

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| **Product name** | Anti-Leptin Receptor antibody [RM0085-9C29] |
| **Description** | Rat monoclonal [RM0085-9C29] to Leptin Receptor |
| **Tested applications** | **Suitable for:** WB |
| **Species reactivity** | **Reacts with:** Mouse |
| **Immunogen** | Recombinant fragment corresponding to the extracellular domain of Mouse Leptin Receptor |

### Properties

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| **Form** | Liquid |
| **Storage instructions** | Shipped at 4°C. After reconstitution store at -20ºC. Avoid freeze / thaw cycles. |
| **Storage buffer** | Preservative: None<br>Constituents: PBS |
| **Clonality** | Monoclonal |
| **Clone number** | RM0085-9C29 |
| **Isotype** | IgG2 |

### Applications

Our Abpromise guarantee covers the use of **ab86060** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

| Application | Abreviews | Notes |
|---|---|---|
| WB | | 1/500 - 1/1000. Predicted molecular weight: 132 kDa. |

### Target

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|---|---|
| **Function** | Receptor for obesity factor (leptin). On ligand binding, mediates signaling through JAK2/STAT3. Involved in the regulation of fat metabolism and, in a hematopoietic pathway, required for normal lymphopoiesis. May play a role in reproduction. Can also mediate the ERK/FOS signaling pathway. |

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| **Tissue specificity** | Isoform A is expressed in fetal liver and in hematopoietic tissues and choroid plexus. In adults highest expression in heart, liver, small intestine, prostate and ovary. Low level in lung and kidney. Isoform B is highly expressed in hypothalamus. |
| **Sequence similarities** | Belongs to the type I cytokine receptor family. Type 2 subfamily.<br>Contains 4 fibronectin type-III domains.<br>Contains 1 Ig-like (immunoglobulin-like) domain. |
| **Domain** | The cytoplasmic domain may be essential for intracellular signal transduction by activation of JAK tyrosine kinase and STATs.<br>The WSXWS motif appears to be necessary for proper protein folding and thereby efficient intracellular transport and cell-surface receptor binding.<br>The box 1 motif is required for JAK interaction and/or activation. |
| **Post-translational modifications** | On ligand binding, phosphorylated on two conserved C-terminal tyrosine residues (isoform B only) by JAK2. Tyr-986 is required for complete binding and activation of PTPN11, ERK/FOS activation and, for interaction with SOCS3 (By similarity). Phosphorylation on Tyr-1141 is required for STAT3 binding/activation. |
| **Cellular localization** | Secreted and Cell membrane. |



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