

## Product datasheet

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

### Overview

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

### Properties

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

<b>Function</b>	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
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pathway.

**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.

Contains 4 fibronectin type-III domains.

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.

The WSXWS motif appears to be necessary for proper protein folding and thereby efficient intracellular transport and cell-surface receptor binding.

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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