Anti-Leptin Receptor antibody ab216690

**Overview**

**Product name**
Anti-Leptin Receptor antibody

**Description**
Rabbit polyclonal to Leptin Receptor

**Host species**
Rabbit

**Tested applications**
Suitable for: Flow Cyt, IHC-P

**Species reactivity**
Reacts with: Mouse, Human

**Predicted to work with**: Rat

**Immunogen**
Synthetic peptide aa 540-590 conjugated to keyhole limpet haemocyanin. The exact sequence is proprietary.

Sequence:
PSSVKAETITINGLKLISWEKPVFPENNLQF
QIRYGLSGKEVQWKMYEVYD

Database link: P48357

**Positive control**
K562 cells

**Properties**

**Form**
Liquid

**Storage instructions**

**Storage buffer**
Preservative: 0.09% Sodium azide
Constituents: 50% Glycerol, 1% BSA

**Purity**
Protein A purified

**Clonality**
Polyclonal

**Isotype**
IgG

**Applications**

Our Abpromise guarantee covers the use of ab216690 in the following tested applications.
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.

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.

<table>
<thead>
<tr>
<th>Application</th>
<th>Abreviews</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flow Cyt</td>
<td></td>
<td>1/20 - 1/100.</td>
</tr>
<tr>
<td>IHC-P</td>
<td></td>
<td>1/200.</td>
</tr>
</tbody>
</table>

Images
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) of Mouse Brain with ab216690 at 1/200

Flow cytometric analysis of K562 cells labeling Leptin Receptor using ab216690 at 3 μg for 30 minutes, followed by incubation with a conjugated secondary (PE Conjugated) (green) for 30 minutes, compared to control cells (blue), secondary only (light blue) and isotype control (orange).

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