



Product datasheet

Anti-Leptin Receptor antibody ab5593

★ ★ ★ ★ ★ [6 Abreviews](#) [33 References](#) [1 Image](#)

Overview

Product name	Anti-Leptin Receptor antibody
Description	Rabbit polyclonal to Leptin Receptor
Host species	Rabbit
Tested applications	Suitable for: IHC-Fr, WB, IP
Species reactivity	Reacts with: Mouse, Rat, Human
Immunogen	Synthetic peptide corresponding to Rat Leptin Receptor aa 577-594 (extracellular). Sequence: KEIQWKTHEVFDAKSKSA (Peptide available as ab5837)
	 Run BLAST with  Run BLAST with
Positive control	WB: Mouse lung tissue extract.
General notes	As per Uniprot database (P48357) OB receptor has 5 isoforms and is highly glycosylated, this means the observed band size will be different than predicted and multiple bands are expected depending upon the isoforms expressed in sample types. The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing. If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.
Storage buffer	Preservative: 0.05% Sodium azide Constituent: 99% PBS
Purity	Ammonium Sulphate Precipitation

Purification notes	No concentration is available.
Clonality	Polyclonal
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab5593 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
IHC-Fr	★ ★ ★ ★ ★ (1)	Use at an assay dependent concentration.
WB	★ ★ ★ ★ ★ (4)	1/2000. Detects a band of approximately 100, 125 kDa. Can be blocked with Leptin Receptor peptide (ab5837) . ab5593 detects an ~100 kDa and ~125 kDa protein representing the short and long forms of OB-R.
IP		Use at an assay dependent concentration. PubMed: 21151569

Target

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.

Images



Anti-Leptin Receptor antibody (ab5593) at 1/2000 dilution + Mouse lung tissue lysate

Western blot detection of both short and long forms of Leptin (OB-R).

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