



# Goat anti Mouse Lep polyclonal antibody (CABT-L320)

This product is for research use only and is not intended for diagnostic use.

## PRODUCT INFORMATION

<b>Specificity</b>	Detects mouse Leptin/OB in ELISAs and Western blots. In sandwich ELISAs, approximately 40% cross-reactivity with recombinant rat Leptin/OB is observed and less than 0.2% cross-reactivity with recombinant human Leptin/OB is observed.
<b>Target</b>	Leptin/OB
<b>Immunogen</b>	E. coli-derived recombinant mouse Leptin/OB, Val22-Cys167, Accession #Q544U0
<b>Isotype</b>	IgG
<b>Source/Host</b>	Goat
<b>Species Reactivity</b>	Mouse
<b>Purification</b>	Antigen Affinity-purified
<b>Conjugate</b>	Unconjugated
<b>Applications</b>	ELISA(Cap), IHC, WB
<b>Reconstitution</b>	Reconstitute at 0.2 mg/mL in sterile PBS.
<b>Format</b>	Lyophilized; Small package size(SP): Liquid
<b>Size</b>	100 µg
<b>Buffer</b>	PBS with Trehalose
<b>Preservative</b>	None
<b>Storage</b>	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of

receipt, -20 to -70 °C as supplied. 1 month, 2 to 8 °C under sterile conditions after reconstitution. 6 months, -20 to -70 °C under sterile conditions after reconstitution.

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**Ship**

The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. \*Small pack size (SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C.

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## BACKGROUND

**Introduction**

Leptin is a protein product of the mouse obese gene. Mice with mutations in the obese gene that block the synthesis of Leptin have been found to be obese and diabetic and to have reduced activity, metabolism and body temperature. cDNA clones encoding Leptin have been isolated from human, simian, mouse, and rat cells. Mouse Leptin shares approximately 96% and 84% sequence identity with the rat and human protein, respectively. Mouse Leptin cDNA encodes a 167 amino acid residue protein with a 21 amino acid residue signal sequence that is cleaved to yield the 146 amino acid residue mature protein. The expression of Leptin mRNA has been shown to be restricted to adipose tissue. A high-affinity receptor for Leptin (OB-R) with homology to gp130 and the G-CSF receptor has been cloned. OB-R mRNA has been shown to be expressed in the choroid plexus and in the hypothalamus. OB-R has also been identified as an isoform of B219, a sequence that is expressed in at least four isoforms in very primitive hematopoietic cell populations and in a variety of lymphohematopoietic cell lines. The possible roles of Leptin in body weight regulation, hematopoiesis and reproduction are being investigated.

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**Keywords**

FLJ94114;LEP;leptin (murine obesity homolog);leptin (obesity homolog; mouse);Leptin;OB;Obese protein;obese; mouse; homolog of;Obesity factor;OBOBS

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## GENE INFORMATION

**Entrez Gene ID**

[16846](#)

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**UniProt ID**

[P41160](#)

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