

Leptin Antibody / LEP (R32090)

Catalog No.	Formulation	Size
R32090	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

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Availability	1-3 business days
Species Reactivity	Mouse
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity
Buffer	Lyophilized from 1X PBS with 2.5% BSA and 0.025% sodium azide
UniProt	P41160
Applications	Western Blot : 0.1-0.5ug/ml ELISA : 0.1-0.5ug/ml (mouse protein tested); request BSA-free format for coating
Limitations	This Leptin antibody is available for research use only.



Western blot testing of mouse NIH3T3 cell lysate with Leptin antibody.
Expected/observed molecular weight ~16 kDa.

Description

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. The expression of Leptin mRNA has been shown to be restricted to adipose tissue. Although regulation of fat stores is deemed to be the primary function of leptin, it also plays a role in other physiological processes, as evidenced by its multiple sites of synthesis other than fat cells, and the multiple cell types beside hypothalamic cells that have leptin receptors. Many of these additional functions

are yet to be defined.

Application Notes

Optimal dilution of the Leptin antibody should be determined by the researcher.

Immunogen

Amino acids KMDQTLAVYQQVLTSLPSQNVLQIANDLENLRDLLH of mouse Leptin were used as the immunogen for the Leptin antibody.

Storage

After reconstitution, the Leptin antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.