

Datasheet for ABIN2776944  
**anti-Leptin antibody (Middle Region)**



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3 Images

## Overview

Quantity:	100 µL
Target:	Leptin (LEP)
Binding Specificity:	Middle Region
Reactivity:	Human, Mouse, Rat, Cow, Horse, Dog, Goat, Rabbit, Sheep, Pig
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Leptin antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC)

## Product Details

Immunogen:	The immunogen is a synthetic peptide directed towards the middle region of human LEP
Sequence:	LHVLAFSKSC HLPWASGLET LDSLGGVLEA SGYSTEVVAL SRLQGSLQDM
Predicted Reactivity:	Cow: 100%, Dog: 86%, Goat: 100%, Horse: 100%, Human: 100%, Mouse: 100%, Pig: 93%, Rabbit: 93%, Rat: 100%, Sheep: 100%
Characteristics:	This is a rabbit polyclonal antibody against LEP. It was validated on Western Blot using a cell lysate as a positive control.
Purification:	Affinity Purified

## Target Details

Target:	Leptin (LEP)
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# Target Details

Alternative Name:	LEP ( <a href="#">LEP Products</a> )
Background:	<p>LEP is a protein that is secreted by white adipocytes, and which plays a major role in the regulation of body weight. This protein, which acts through the leptin receptor, functions as part of a signaling pathway that can inhibit food intake and/or regulate energy expenditure to maintain constancy of the adipose mass. This protein also has several endocrine functions, and is involved in the regulation of immune and inflammatory responses, hematopoiesis, angiogenesis and wound healing. Mutations in this gene and/or its regulatory regions cause severe obesity, and morbid obesity with hypogonadism. This gene has also been linked to type 2 diabetes mellitus development. This gene encodes a protein that is secreted by white adipocytes, and which plays a major role in the regulation of body weight. This protein, which acts through the leptin receptor, functions as part of a signaling pathway that can inhibit food intake and/or regulate energy expenditure to maintain constancy of the adipose mass. This protein also has several endocrine functions, and is involved in the regulation of immune and inflammatory responses, hematopoiesis, angiogenesis and wound healing. Mutations in this gene and/or its regulatory regions cause severe obesity, and morbid obesity with hypogonadism. This gene has also been linked to type 2 diabetes mellitus development.</p> <p>Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments. Publication Note: This RefSeq record includes a subset of the publications that are available for this gene. Please see the Entrez Gene record to access additional publications.</p> <p>Alias Symbols: OB, OBS</p> <p>Protein Interaction Partner: Hk3, SIGLEC6, GHRL, LEPR, UCN, PRKAA2, CLU, CRP, A2M, STAT3, Protein Size: 167</p>
Molecular Weight:	16 kDa
Gene ID:	3952
NCBI Accession:	<a href="#">NM_000230</a> , <a href="#">NP_000221</a>
UniProt:	<a href="#">P41159</a>
Pathways:	<a href="#">JAK-STAT Signaling</a> , <a href="#">AMPK Signaling</a> , <a href="#">Hormone Transport</a> , <a href="#">Peptide Hormone Metabolism</a> , <a href="#">Hormone Activity</a> , <a href="#">Negative Regulation of Hormone Secretion</a> , <a href="#">Regulation of Carbohydrate Metabolic Process</a> , <a href="#">Feeding Behaviour</a> , <a href="#">Monocarboxylic Acid Catabolic Process</a>

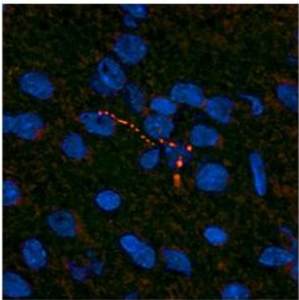
Application Details

Application Notes:	Optimal working dilutions should be determined experimentally by the investigator.
Comment:	Antigen size: 167 AA
Restrictions:	For Research Use only

Handling

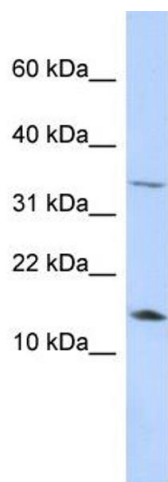
Format:	Liquid
Concentration:	Lot specific
Buffer:	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09 % (w/v) sodium azide and 2 % sucrose.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-20 °C
Storage Comment:	For short term use, store at 2-8°C up to 1 week. For long term storage, store at -20°C in small aliquots to prevent freeze-thaw cycles.

Images



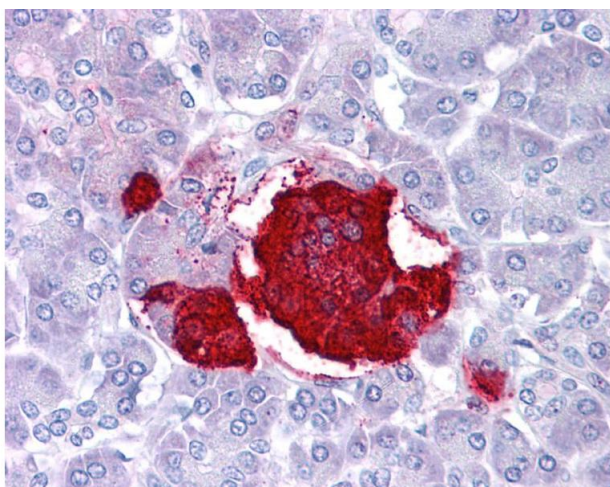
**LEP (ARP41698\_P050)**  
Immunohistochemistry  
Sample: rat and mouse  
Tissue type: Brain Tissue  
Dilution: 10ug/ml  
Observed: staining in neuronal processes in hypothalamus  
  
Application in forum

Image 1.



#### Western Blotting

**Image 2.** WB Suggested Anti-LEP Antibody Titration: 0.2-1 ug/ml ELISA Titer: 1:312500 Positive Control: HepG2 cell lysate LEP is supported by BioGPS gene expression data to be expressed in HepG2



#### Immunohistochemistry

**Image 3.**