

Product datasheet for **AP52465PU-N**

Leptin (LEP) (N-term) Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	FC, IF, IHC, WB
Recommended Dilution:	ELISA: 1/1000. Western Blot: 1/100-1/500. Flow Cytometry: 1/10-1/50. Immunofluorescence: 1/10-1/50. Immunohistochemistry on Paraffin Sections: 1/10-1/50.
Reactivity:	Human
Host:	Rabbit
Isotype:	Ig
Clonality:	Polyclonal
Immunogen:	KLH conjugated synthetic peptide between 7-37 amino acids from the N-terminal region of Human Leptin.
Specificity:	This antibody recognizes Human Leptin (N-term).
Formulation:	PBS containing 0.09% (W/V) Sodium Azide as preservative State: Aff - Purified State: Liquid purified Ig fraction
Concentration:	lot specific
Purification:	Protein A column, followed by peptide affinity purification
Conjugation:	Unconjugated
Storage:	Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	leptin
Database Link:	Entrez Gene 3952 Human P41159



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Background:

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. [provided by RefSeq].

Synonyms:

LEP, OB, OBS, Obesity factor, Obese protein

Note:

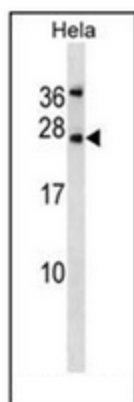
Molecular Weight: 18641 Da

Protein Families:

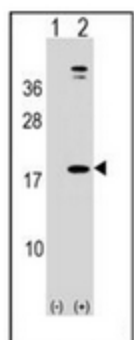
Druggable Genome, Secreted Protein

Protein Pathways:

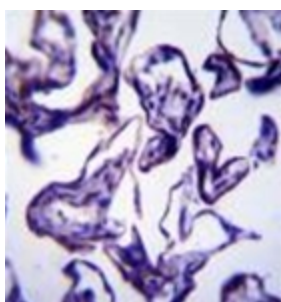
Adipocytokine signaling pathway, Cytokine-cytokine receptor interaction, Jak-STAT signaling pathway, Neuroactive ligand-receptor interaction

Product images:


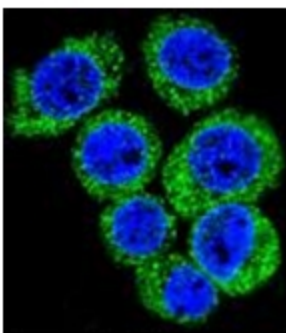
Western blot analysis of Leptin Antibody (N-term) in HeLa cell line lysates (35ug/lane). This demonstrates the LEP antibody detected the LEP protein (arrow).



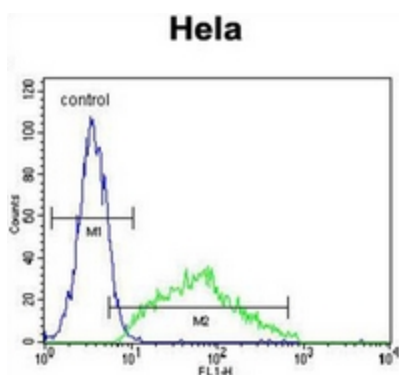
Western blot analysis of LEP (arrow) using Leptin Antibody (N-term). 293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected (Lane 2) with the LEP gene.



Immunohistochemistry analysis in formalin fixed and paraffin embedded human placenta tissue reacted with Leptin Antibody (N-term) followed by peroxidase conjugation of the secondary antibody and DAB staining.



Confocal immunofluorescent analysis of Leptin Antibody (N-term) with HeLa cells followed by Alexa Fluor 488-conjugated goat anti-rabbit IgG (green). DAPI was used to stain the cell nuclei (blue).



Flow cytometric analysis of HeLa cells using Leptin Antibody (N-term) (right histogram) compared to a negative control cell (left histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.