Human Leptin/OB antibody

Catalog Number: ATGA0460

PRODUCT INFORMATION

Catalog number
ATGA0460

Clone No.
AT7E10

Product type
Monoclonal Antibody

UnitProt No.
P41159

NCBI Accession No.
NP_000221

Alternative Names
LEP, OB, OBS, Leptin, Obesity factor, Obese protein, Leptin, Leptin Murine Obesity Homolog, Leptin Precursor Obesity Factor, Obesity, Obesity homolog mouse, Obesity Murine Homolog Leptin

PRODUCT SPECIFICATION

Antibody Host
Mouse

Reacts With
Human

Concentration
1mg/ml (determined by BCA assay)

Formulation
Liquid in. Phosphate-Buffered Saline (pH 7.4) with 0.02% Sodium Azide, 10% glycerol

Immunogen
Recombinant human Leptin (22-167aa) purified from E. coli

Isotype
IgG2b kappa

Purification Note
By protein-A affinity chromatography

Application
ELISA,WB,ICC/IF

Usage
The antibody has been tested by ELISA, Western blot and ICC/IF analysis to assure specificity and reactivity. Since application varies, however, each investigation should be titrated by the reagent to obtain optimal results.

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Storage

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description

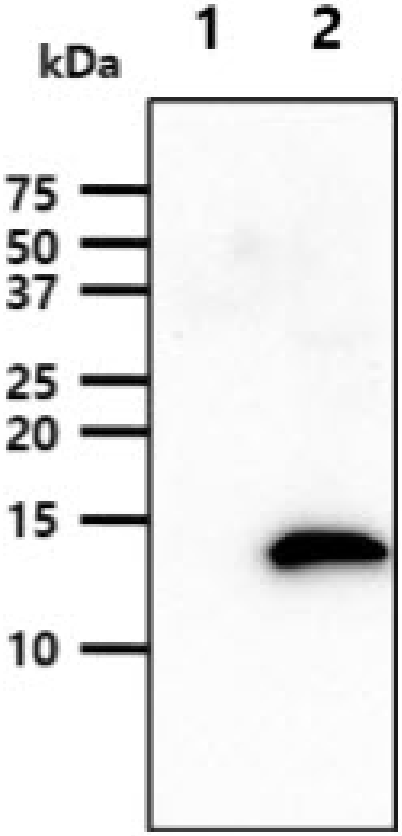
Human leptin is a 16-kDa nonglycosylated hormone that is produced in mature adipocytes. Leptin acts primarily in the hypothalamus to reduce food intake and body weight. In ob/ob mice, the gene encoding leptin is mutated, resulting in morbid obesity and associated abnormalities, including hyperphagia, hypothermia, diabetes and infertility. The function of leptin in regulating appetite and metabolism, as well as the possibility of using leptin as a therapeutic agent, are currently under intense investigation.

General References

Anini Y., et al. (2003) Diabetes. 52(2): 252-259.
Jeong KJ., et al. (1999) Appl Environ Microbiol. 65(7): 3027-32.
Hyogo H., et al. (2002) J. Biol. Chem. 277(37): 34117-34124.

DATA

Western blot analysis (WB)

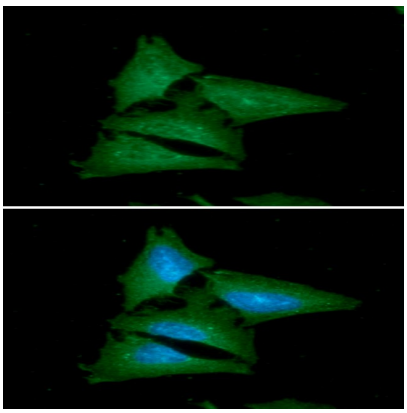


The cell lysates (40ug) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human Leptin antibody (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.
Lane 1.: 293T cell lysate
Lane 2.: Leptin transfected 293T cell lysate

Immunocytochemistry/Immunofluorescence (ICC/IF)

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ICC/IF analysis of Leptin in HeLa cells. The cell was stained with ATGA0460 (1:100). The secondary antibody (green) was used Alexa Fluor 488. DAPI was stained the cell nucleus (blue).