

LEP Antibody (monoclonal) (M01)

Mouse monoclonal antibody raised against a full length recombinant LEP. Catalog # AT2694a

Specification

LEP Antibody (monoclonal) (M01) - Product Information

Application Primary Accession Other Accession Reactivity Host Clonality Isotype Calculated MW WB, E P41159 BC060830 Human mouse Monoclonal IgG2b Kappa 18641

LEP Antibody (monoclonal) (M01) - Additional Information

Gene ID 3952

Other Names Leptin, Obese protein, Obesity factor, LEP, OB, OBS

Target/Specificity LEP (AAH60830.1, 22 a.a. ~ 167 a.a) full-length recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.

Dilution WB~~1:500~1000 E~~N/A

Format Clear, colorless solution in phosphate buffered saline, pH 7.2 .

Storage Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Precautions LEP Antibody (monoclonal) (M01) is for research use only and not for use in diagnostic or therapeutic procedures.

LEP Antibody (monoclonal) (M01) - Protocols

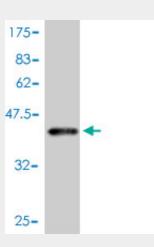
Provided below are standard protocols that you may find useful for product applications.

- <u>Western Blot</u>
- Blocking Peptides
- Dot Blot

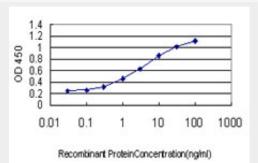


- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- <u>Cell Culture</u>

LEP Antibody (monoclonal) (M01) - Images



Antibody Reactive Against Recombinant Protein.Western Blot detection against Immunogen (41.8 KDa) .



Detection limit for recombinant GST tagged LEP is approximately 0.1ng/ml as a capture antibody.

LEP Antibody (monoclonal) (M01) - 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.

LEP Antibody (monoclonal) (M01) - References

Associations of markers in 11 obesity candidate genes with maximal weight loss and weight regain in the SOS bariatric surgery cases. Sarzynski MA, et al. Int J Obes (Lond), 2010 Aug 24. PMID 20733583.A genetic association study of maternal and fetal candidate genes that predispose to preterm prelabor rupture of membranes (PROM). Romero R, et al. Am J Obstet Gynecol, 2010 Jul 29. PMID 20673868.Association of the leptin gene with knee osteoarthritis susceptibility in a Han Chinese population: a case-control study. Qin J, et al. J Hum Genet, 2010 Jul 22. PMID



20664554.Candidate molecular pathway genes related to appetite regulatory neural network, adipocyte homeostasis and obesity: results from the CARDIA Study. Friedlander Y, et al. Ann Hum Genet, 2010 Sep 1. PMID 20642810.Variation at the NFATC2 Locus Increases the Risk of Thiazolinedine-Induced Edema in the Diabetes REduction Assessment with ramipril and rosiglitazone Medication (DREAM) Study. Bailey SD, et al. Diabetes Care, 2010 Jul 13. PMID 20628086.