

ARG83762 Mouse Leptin ELISA Kit

Package: 96 wells
Store at: 4°C, -20°C, -80°C

Summary

Product Description	ARG83762 Mouse Leptin ELISA Kit is an Enzyme Immunoassay kit for the quantification of Mouse Leptin in serum, plasma and cell culture supernatants.
Tested Reactivity	Ms
Tested Application	ELISA
Target Name	Leptin
Conjugation	HRP
Conjugation Note	Substrate: TMB and read at 450 nm.
Sensitivity	15 pg/ml
Sample Type	Serum, plasma and cell culture supernatants.
Standard Range	62.5 - 4000pg/ml
Sample Volume	100 µl
Alternate Names	LEP; Leptin; OBS; OB; Leptin (Murine Obesity Homolog); Leptin (Obesity Homolog, Mouse); Obesity Factor; Obese Protein; Obese, Mouse, Homolog Of; LEPD

Application Instructions

Assay Time	4 hours
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Properties

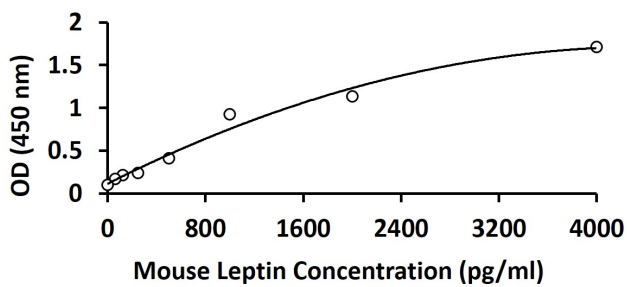
Form	96 well
Storage instruction	Store the kit at 4°C, -20°C, -80°C. Keep microplate wells sealed in a dry bag with desiccants. Do not expose test reagents to heat, sun or strong light during storage and usage. Please refer to the product user manual for detail temperatures of the components.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Gene Symbol	LEP
Gene Full Name	Leptin
Background	This gene encodes a protein that is secreted by white adipocytes into the circulation and plays a major role in the regulation of energy homeostasis. Circulating leptin binds to the leptin receptor in the brain, which activates downstream signaling pathways that inhibit feeding and promote energy expenditure. This protein also has several endocrine functions, and is involved in the regulation of immune and inflammatory responses, hematopoiesis, angiogenesis, reproduction, bone formation and wound healing. Mutations in this gene and its regulatory regions cause severe obesity and morbid obesity with hypogonadism in human patients. A mutation in this gene has also been linked to type 2 diabetes mellitus development. [provided by RefSeq, Aug 2017]

Function	Increases CD4+CD25- T-cell proliferation and reduces autophagy during TCR (T-cell receptor) stimulation, through MTOR signaling pathway activation and BCL2 up-regulation. [Uniprot]
PTM	Disulfide bond. [Uniprot]
Cellular Localization	Secreted. [Uniprot]

Images



ARG83762 Mouse Leptin ELISA Kit standard curve image

ARG83762 Mouse Leptin ELISA Kit results of a typical standard run with optical density reading at 450 nm.