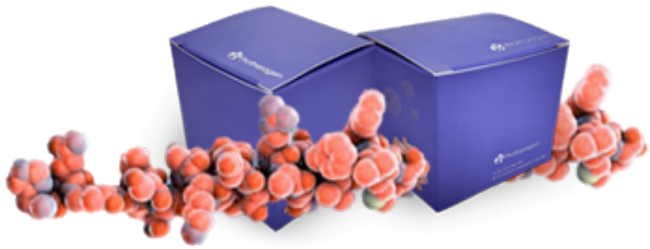
Protheragen
Obesity



Mouse leptin (LEP) ELISA kit (0.5-16 ng/mL)

Cat. No.:	0126WXX-873
Assay Type:	Quantitative ELISA
Target Species:	Mouse
Assay Target:	LEP
Size:	48T; 96T

This product is for research use only and is not intended for diagnostic use.

Product Overview

Description	Mouse leptin (LEP) ELISA kit (0.5-16 ng/mL) is an ELISA-based *in vitro* re search tool designed specifically for the quantitative detection of LEP in mice samples with a range of 0.5-16 ng/mL and a minimum detectable dose (sensitivity) of 0.1 ng/mL. The kit is highly sensitive and easy to use.
Assay Principle	The ELISA analytical biochemical technique is based on LEP antibody-LEP antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect LEP antigen targets in samples.
Background	LEP is a hormone that plays a crucial role in regulating body fat. Secreted by f at cells, it functions as part of a signaling pathway that controls the extent o f fat storage in the human body. This protein belongs to the leptin family and p ossesses dual functions as both a growth factor and a hormone. LEP's primary fun ctions include: regulating food intake, controlling energy expenditure, particip ating in glucose homeostasis regulation, modulating adipocyte differentiation, a nd influencing fatty acid metabolism. Obesity research frequently focuses on dec iphering the mechanisms of leptin resistance and developing countermeasures, inc luding the development of drugs that enhance brain sensitivity to leptin or the exploration of alternative pathways for regulating appetite and energy balance. Understanding leptin-mediated signaling pathways is central to this research.
Synonyms	OB; OBS; Obesity Homolog; Obesity Factor; Obese Protein
Formula Weight	18,641 Da

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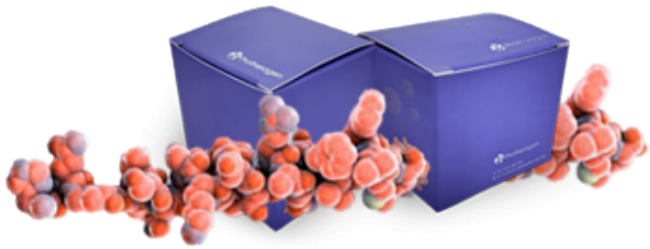

Applications	Mouse leptin (LEP) ELISA kit (0.5-16 ng/mL) is used to quantify LEP in serum, pl asma, tissue homogenates, feces, urine, and body fluids of mouse, providing data to support research in a wide range of areas, including metabolic pathway, endo crinology, cardiovascular biology, obesity, *etc*.
Research Area	Metabolic pathway; Endocrinology; Cardiovascular biology; Obesity

Specification

Sample Type	Serum; Plasma; Tissue homogenate; Feces; Urine; Body fluids
Detection Range	0.5-16 ng/mL
Sensitivity	0.1 ng/mL
Precision (Intra-assay)	CV<15%
Precision (Inter-assay)	CV<15%
Cross-reactivity	No significant cross-reactivity or interference was observed.
Storage	Store at 2-8°C.

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