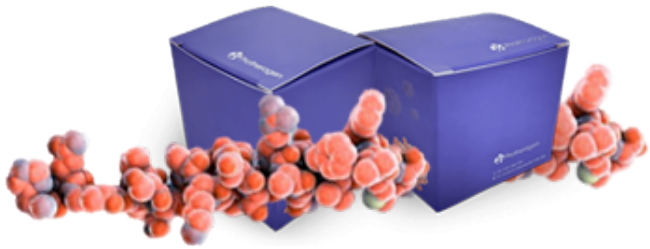
Protheragen
Obesity



Rat leptin receptor (LEPR) ELISA kit (50-1000 pg/mL)

Cat. No.:	0126WXX-977
Assay Type:	Quantitative ELISA
Target Species:	Rat
Assay Target:	LEPR
Size:	48T; 96T

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

Product Overview

Description	Rat leptin receptor (LEPR) ELISA kit (50-1000 pg/mL) is an ELISA-based *in vit ro* research tool designed specifically for the quantitative detection of LEP R in rat samples with a range of 50-1000 pg/mL and a minimum detectable dose (se nsitivity) of 1.0 pg/mL. The kit is highly sensitive and easy to use.
Assay Principle	The ELISA analytical biochemical technique is based on LEPR antibody-LEPR antige n interactions (immunosorbency) and an HRP colorimetric detection system to dete ct LEPR antigen targets in samples.
Background	LEPR, as a peptide hormone receptor, is responsible for receiving leptin signals . When leptin binds to LEPR, it initiates a series of intracellular cascades, in cluding the positive regulation of the JAK-STAT signaling pathway and the positi ve regulation of the PI3K signaling pathway. These pathways are crucial for tran slating leptin signals into biological responses, such as appetite suppression a nd metabolic regulation. The relationship between LEPR and obesity is paramount. When leptin functions as the “satiety hormone,” LEPR acts as the “satiety switc h” in the brain and other tissues. Without functional receptors, leptin signals cannot be received regardless of how high leptin concentrations become.
Synonyms	CD295; LEPR; OBR; LR
Formula Weight	96,042 Da

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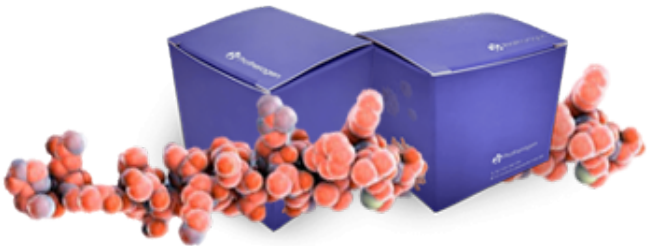

Applications	Rat leptin receptor (LEPR) ELISA kit (50-1000 pg/mL) is used to quantify LEPR in serum, plasma, cell culture supernatants, body fluid, tissue homogenate of rat, providing data to support research in a wide range of areas, including signal t ransduction, CD & adhesion molecule, metabolic pathway, endocrinology, obesity, *etc*.
Research Area	Signal transduction; CD & Adhesion molecule; Metabolic pathway; Endocrinology; O besity

Specification

Sample Type	Serum; Plasma; Cell culture supernatants; Body fluid; Tissue homogenate
Detection Range	50-1000 pg/mL
Sensitivity	1.0 pg/mL
Cross-reactivity	No significant cross-reactivity or interference was observed.
Storage	Store at 2-8°C.

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