



Duck leptin (LEP) ELISA kit-Quantitative sandwich

Cat. No.:	0126WXX-865
Assay Type:	Quantitative sandwich ELISA
Target Species:	Duck
Assay Target:	LEP
Size:	1 kit

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

Product Overview

Description	Duck leptin (LEP) ELISA kit-Quantitative sandwich is an ELISA-based <i>in vitro</i> research tool designed specifically for the quantitative detection of LEP in duck samples with a range of 0.625-20 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 fat cells, it functions as part of a signaling pathway that controls the extent of fat storage in the human body. This protein belongs to the leptin family and possesses dual functions as both a growth factor and a hormone. LEP's primary functions include: regulating food intake, controlling energy expenditure, participating in glucose homeostasis regulation, modulating adipocyte differentiation, and influencing fatty acid metabolism. Obesity research frequently focuses on deciphering the mechanisms of leptin resistance and developing countermeasures, including 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

**Applications**

Duck leptin (LEP) ELISA kit-Quantitative sandwich is used to quantify LEP in serum, plasma, whole blood, tissue, saliva, urine, feces, and other fluids of duck, providing data to support research in a wide range of areas, including metabolic pathway, endocrinology, cardiovascular biology, obesity, etc.

Research Area

Metabolic pathway; Endocrinology; Cardiovascular biology; Obesity

Specification

Sample Type	Serum; Plasma; Whole blood; Other fluid; Tissue; Saliva; Urine; Feces
Detection Range	0.625-20 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.