

## ARG82580 Human Leptin ELISA Kit

Package: 96 wells  
Store at: 4°C

### Component

Cat. No.	Component Name	Package	Temp
ARG82580-001	Antibody-coated microplate	8 X 12 strips	4°C. Unused strips should be sealed tightly in the air-tight pouch.
ARG82580-002	Standard	2 X 10 ng/vial	4°C
ARG82580-003	Standard/Sample diluent	30 ml (Ready to use)	4°C
ARG82580-004	Antibody conjugate concentrate (100X)	1 vial (100 µl)	4°C
ARG82580-005	Antibody diluent buffer	12 ml (Ready to use)	4°C
ARG82580-006	HRP-Streptavidin concentrate (100X)	1 vial (100 µl)	4°C
ARG82580-007	HRP-Streptavidin diluent buffer	12 ml (Ready to use)	4°C
ARG82580-008	25X Wash buffer	20 ml	4°C
ARG82580-009	TMB substrate	10 ml (Ready to use)	4°C (Protect from light)
ARG82580-010	STOP solution	10 ml (Ready to use)	4°C
ARG82580-011	Plate sealer	4 strips	Room temperature

### Summary

Product Description	ARG82580 Human Leptin ELISA Kit is an Enzyme Immunoassay kit for the quantification of Human Leptin in Serum, Plasma (EDTA. Heparin) , Cell culture supernatants.
Tested Reactivity	Hu
Tested Application	ELISA
Target Name	Leptin
Conjugation	HRP
Conjugation Note	Substrate: TMB and read at 450 nm
Sensitivity	31.25 pg/ml
Sample Type	Serum, plasma (EDTA, heparin) and cell culture supernatants.
Standard Range	62.5 - 4000 pg/ml
Sample Volume	100 µl
Precision	Intra-Assay CV: 6.5% Inter-Assay CV: 7.8%

Alternate Names                      Leptin; Obese protein; OB; LEPD; Obesity factor; OBS

## Application Instructions

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Assay Time                              ~ 5 hours

## Properties

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Form                                        96 well

Storage instruction                      Store the kit at 2-8°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

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Gene Symbol                              LEP

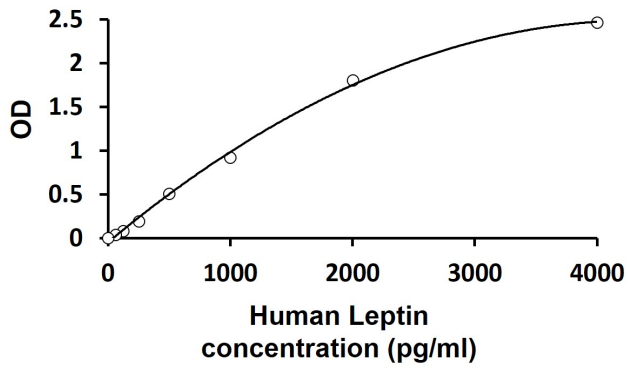
Gene Full Name                            leptin

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. [provided by RefSeq, Jul 2008]

Function                                    May function as part of a signaling pathway that acts to regulate the size of the body fat depot. An increase in the level of LEP may act directly or indirectly on the CNS to inhibit food intake and/or regulate energy expenditure as part of a homeostatic mechanism to maintain constancy of the adipose mass. [UniProt]

Highlight                                    Related products:  
[Leptin antibodies](#); [Leptin ELISA Kits](#);  
New ELISA data calculation tool:  
[Simplify the ELISA analysis by GainData](#)

Research Area                              Cell Biology and Cellular Response kit; Developmental Biology kit; Metabolism kit; Neuroscience kit; Signaling Transduction kit



ARG82580 Human Leptin ELISA Kit standard curve image

ARG82580 Human Leptin ELISA Kit results of a typical standard run with optical density reading at 450 nm.