

Human Leptin Receptor ELISA Kit | LEPR elisa kit

Leptin Receptor Human ELISA Kit

CATALOG # AAA58967	REACTIVITY Human	APPLICATIONS ELISA
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PRODUCT SYNONYMS

Leptin Receptor; Leptin Receptor Human ELISA Kit; Human Leptin Receptor; LEPR elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Assay Type	Sandwich
Samples	Human serum, plasma, cell culture supernatant or tissue samples
Detection Range	156 pg/ml-10,000 pg/ml
Applicable Applications for LEPR elisa kit	ELISA
Preparation and Storage	Store at 2-8 degree C for 4 months, or at -20 degree C for 8 months.

IMAGES

Typical Data & Standard Curve
Results of a typical standard run of a human LEPR ELISA Kit are shown below. This standard curve was generated at our lab for demonstration purpose only. Each user should obtain their own standard curve as per experiment. (N/A=not applicable)

X	Pg/ml	0	156	312	625	1250	2500	5000	10,000
Y	OD450	0.052	0.062	0.091	0.177	0.293	0.549	1.249	2.321

Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for LEPR elisa kit

Background: Leptin receptor, also known as LEP-R or OB-R, is a type I cytokine receptor, a protein that in humans is encoded by the LEPR gene. LEP-R functions as a receptor for the fat cell-specific hormone leptin. LEP-R has also been designated as CD295 (cluster of differentiation 295). Its location is the cell membrane, and it has extracellular, trans-membrane and intracellular sections (protein regions). The leptin hormone regulates adipose-tissue mass through hypothalamus effects on hunger and energy use. It acts through the leptin receptor (LEP-R), a single-transmembrane-domain receptor of the cytokine receptor family. In hypothalamic neurons, adequate leptin receptor function and subsequent regulation of energy metabolism and body weight depends on interactions of the receptor with gangliosides in the cell membrane.

Principle of the Assay: This kit was based on standard sandwich enzyme-linked immune-sorbent assay technology. The purified anti-LEPR antibody was pre-coated onto 96-well plates. And the HRP conjugated anti-LEPR antibody was used as detection antibodies. The standards, test samples and HRP conjugated detection antibody were added to the wells subsequently, mixed and incubated, then, unbound conjugates were washed away with wash buffer. TMB substrates (A & B) were used to visualize HRP enzymatic reaction. TMB was catalyzed by HRP to produce a blue color product that changed into yellow after adding acidic stop solution. The density of yellow is proportional to the LEPR amount of sample captured in plate. Read the O.D. absorbance at 450nm in a microplate reader, and then the concentration of LEPR can be calculated.

NCBI AND UNIPROT INFORMATION

NCBI GI #	3236286
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NCBI GeneID	3953
UniProt Accession #	P48357; Q13592; Q13593; Q13594; Q92919; Q92920; Q92921
Molecular Weight	132,494 Da
NCBI Official Full Name	leptin receptor
NCBI Official Synonym Full Names	leptin receptor
NCBI Official Symbol	LEPR
NCBI Official Synonym Symbols	OBR; OB-R; CD295; LEP-R; LEPRD
NCBI Protein Information	leptin receptor; huB219; OB receptor
UniProt Protein Name	Leptin receptor
UniProt Gene Name	LEPR
UniProt Synonym Gene Names	DB; OBR; LEP-R; OB-R
UniProt Entry Name	LEPR_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/human-elisa-kits/leptin-receptor/58967>