

## Human Leptin ELISA Kit | LEP elisa kit

Leptin (Human) OmniKine ELISA Kit

CATALOG #  
AAA30734

REACTIVITY  
Human

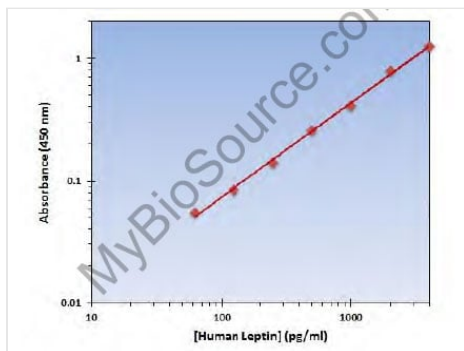
### PRODUCT SYNONYMS

Leptin; Leptin (Human) OmniKine ELISA Kit; Obese protein; Obesity factor; OB; OBS; LEP; LEP elisa kit

### PRODUCT SPECIFICATIONS

|                         |                                                                                                                                                                                                                                                                                                                                                                              |
|-------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Reactivity              | Human                                                                                                                                                                                                                                                                                                                                                                        |
| Specificity             | The OmniKine Human Heregulinbeta-1 ELISA is capable of recognizing both recombinant and naturally produced Human Heregulinbeta-1 proteins. The antigens listed below were tested at 50ng/ml the following antigens did not exhibit significant cross reactivity Human EGF, EGF Receptor, EG-VEGF, Epigen, Epiregulin, HB-EGF, TGF-alpha, VEGF Murine EGF, VEGF Rat EGF, VEGF |
| Form/Format             | 12 x 8-Well Microstrips                                                                                                                                                                                                                                                                                                                                                      |
| Sequence Length         | 167                                                                                                                                                                                                                                                                                                                                                                          |
| Assay Type              | Quantitative Sandwich                                                                                                                                                                                                                                                                                                                                                        |
| Sensitivity             | 32-2000 pg/ml.                                                                                                                                                                                                                                                                                                                                                               |
| Preparation and Storage | Store entire kit at 4 degree C until use. Kit expiration is 3 months from date of shipment.                                                                                                                                                                                                                                                                                  |

### IMAGES



Standard Curve (Sample)

## ADDITIONAL INFORMATION

### Related Product Information for LEP elisa kit

Principle of the Assay: The OmniKine Human Heregulinbeta-1 ELISA Kit contains the components necessary for quantitative determination of natural or recombinant Human Heregulinbeta-1 concentrations within any experimental sample including cell lysates, serum and plasma. This particular immunoassay utilizes the quantitative technique of a "Sandwich" Enzyme-Linked Immunosorbent Assay (ELISA) where the target protein (antigen) is bound in a "sandwich" format by the primary capture antibodies coated to each well-bottom and the secondary detection antibodies added subsequently by the investigator. The capture antibodies coated to the bottom of each well are specific for a particular epitope on Human Heregulinbeta-1 while the user-added detection antibodies bind to epitopes on the captured target protein. Amid each step of the procedure, a series of wash steps must be performed to ensure the elimination of non-specific binding between proteins to other proteins or to the solid phase. After incubation and "sandwiching" of the target antigen, a peroxidase enzyme is conjugated to the constant heavy chain of the secondary antibody (either covalently or via Avidin/Streptavidin-Biotin interactions), allowing for a colorimetric reaction to ensue upon substrate addition. When the substrate TMB (3, 3', 5, 5'-Tetramethylbenzidine) is added, the reaction catalyzed by peroxidase yields a blue color that is representative of the antigen concentration. Upon sufficient color development, the reaction can be terminated through addition of Stop Solution (2 N Sulfuric Acid) where the color of the solution will turn yellow. The absorbance of each well can then be read by a spectrophotometer, allowing for generation of a standard curve and subsequent determination of protein concentration!!Background/Introduction: Human Heregulinbeta-1 is an isoform of the gene product NRG1 through alternative splicing. A great variety of isoforms are known to be produced from NRG1 and each isoform is tissue specific and have structural differences. HRG isoforms all contain immunoglobulin and epidermal growth factor like domains. NRG1 isoforms are known to play roles in growth and differentiation of many different cell types.

## NCBI AND UNIPROT INFORMATION

|                                  |                        |
|----------------------------------|------------------------|
| NCBI GI #                        | 4557715                |
| NCBI GeneID                      | 3952                   |
| NCBI Accession #                 | NP_000221.1            |
| NCBI GenBank Nucleotide #        | NM_000230.2            |
| UniProt Accession #              | P41159; O15158; Q56A88 |
| Molecular Weight                 | 18,641 Da              |
| NCBI Official Full Name          | leptin                 |
| NCBI Official Synonym Full Names | leptin                 |
| NCBI Official Symbol             | LEP                    |
| NCBI Official Synonym Symbols    | OB; OBS; LEPD          |
| NCBI Protein Information         | leptin                 |
| UniProt Protein Name             | Leptin                 |
| UniProt Gene Name                | LEP                    |

**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.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | [contact@aaabiotech.com](mailto:contact@aaabiotech.com)  
Online datasheet: <https://stage.aaabiotech.com/lep-human-elisa-kits/leptin/30734>