

Human Leptin ELISA Kit

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CATALOG #
AAA247877

REACTIVITY
Human

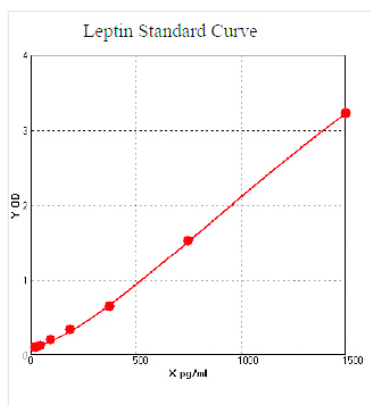
PRODUCT SYNONYMS

Leptin; Human Leptin ELISA kit; Leptin elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	Capture antibody and detection antibody respectively identify different epitopes of the antigen, which maximizes the specificity of the reaction. No cross-reaction exists between the homologous cytokines.
Assay Type	Sandwich
Intra-assay Precision	1.61-4.0
Inter-assay Precision	2.4-5.8

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for Leptin elisa kit	Background: Leptin is a hormone mainly produced by adipocytes and enterocytes in the small intestine, which helps regulate energy balance by suppressing hunger, so as to reduce fat storage in adipocytes for long-term normal weight maintenance. It acts on cellular receptors in the arcuate and ventromedial nuclei, as well as dopaminergic neurons in other parts of the hypothalamus and the ventral tegmental area, thereby regulating feeding. Although the main function of leptin is considered to be to regulate fat storage, leptin also plays a part in other physiological processes, such as energy homeostasis, thermoregulation, bone metabolism, endocrine and pro-inflammatory immune responses. Recent studies have shown that Leptin is more important physiologically as the indicator of energy deficiency than energy excess, and may adapt energy converting needs by increasing food intake and directing neuroendocrine function. In addition, leptin as a hormone derived from adipocytes has been proven to modulate immune responses, innate and adaptive responses under normal and pathological conditions, thus leptin is a mediator for inflammatory reactions. Furthermore, leptin has a due effect on bone, which can stimulate osteoblasts and inhibit the formation and activity of osteoclasts, thereby promoting osteogenesis, and stimulating the molecules of sympathetic neurons in the hypothalamus at the same time, indirectly inhibiting bone formation. Principle of the Assay: Leptin ELISA kit applies the solid phase sandwich enzyme immunoassay technique. The microplate has been pre-coated with antibody specific to Leptin. Standards or samples are then added to the microplate wells and Leptin if present, will bind to the antibody pre-coated wells. Then a biotin-conjugated detection antibody specific to Leptin is added to the wells to form a pre-coatedantibody-antigen-detection antibody Complex. After washing, Streptavidin conjugated Horseradish Peroxidase (HRP) is added to the wells, and then a TMB substrate solution is added to the wells to incubate. TMB substrate solution turns to blue after oxidating by HRP, and finally turns to yellow after adding the stop solution. Color develops in proportion to the amount of Leptin bound in theinitial steps. The color is measured spectrophotometrically at a wavelength of 450nm. The concentration of Leptin in the samples is then determined by comparing the O.D. of the samples to the standard curve.
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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/247877>