



PRODUCTS CATALOG

ELISA KITS

We offer ELISA kits for In vitro diagnostics use - including Fertility, Infectious Disease, Cardiac Marker, Cancer Marker, Drug of Abuse, Urine Strip and so on.

Infectious Disease

Description of products - Size - Cat. No.

Anti-HIV 1&2 ELISA Kit - 96 tests - #46D0011

Anti-HIV 1&2 ELISA Kit - 480 tests - #46D0012

Anti-HCV ELISA Kit - 96 tests - #46D0013

Anti-HCV ELISA Kit - 480 tests - #46D0014

Anti-HAV IgM ELISA Kit - 96 tests - #46D0015

Anti-HAV Total ELISA Kit - 96 tests - #46D0016

Anti-HAV IgG ELISA Kit - 96 tests - #46D0017

HBsAg ELISA Kit - 96 tests - #46D0018

HBsAg ELISA Kit - 480 tests - #46D0019

HBsAb ELISA Kit - 96 tests - #46D0012

HBeAg ELISA Kit - 96 tests - #47D0010

Anti-HBeAg ELISA Kit - 96 tests - #47D0011

Anti-HBc Total ELISA Kit - 96 tests - #47D0012

Anti-HBcAg IgM ELISA Kit - 96 tests - #47D0013

Helicobacter Pylori IgG ELISA Kit - 96 tests - #47D0014

Anti-TP (Syphilis) ELISA Kit - 96 tests - #47D0015

HEV Ab ELISA Kit - 96 tests - #47D0016

HEV IgG ELISA Kit - 96 tests - #47D0017

HEV IgM ELISA Kit - 96 tests - #47D0018

TB ELISA Kit - 96 tests - #47D0019

PSA ELISA Kit

TO.R.C.H.

Toxo IgG ELISA Kit - 96 tests - #48D0011

Toxo IgM (Capture) ELISA Kit - 96 tests - #48D0012

Rubella IgG ELISA Kit - 96 tests - #48D0013

Rubella IgM (Capture) ELISA Kit - 96 tests - #48D0014

CMV IgG ELISA Kit - 96 tests - #48D0015

CMV IgM (Capture) ELISA Kit - 96 tests - #48D0016

HSV 1+2 IgG ELISA Kit - 96 tests - #48D0017

HSV 1+2 IgM (Capture) ELISA Kit - 96 tests - #48D0018

HSV 1 IgG ELISA Kit - 96 tests - #48D0019

HSV 1 IgM(Capture) ELISA Kit - 96 tests - #48D0020

HSV 2 IgG ELISA Kit - 96 tests - #48D0021

HSV 2 IgM (Capture) ELISA Kit - 96 tests - #48D0022

TUMOR

AFP ELISA Kit - 96 tests - #49D0011

CEA ELISA Kit - 96 tests - #49D0012

PSA ELISA Kit - 96 tests - #49D0013

beta HCG ELISA Kit - 96 tests - #49D0014

EBV IgA ELISA Kit - 96 tests - #49D0015

Others

hCG ELISA Kit - 96 tests - #51D0011

Mouse / Rat Leptin Enzyme Immunoassay Kit

catalogue #46D0010

Storage: 2-8°C

Expiry date: stated on the package

This kit contains:

A covered 96 well plate, pre-coated with a polyclonal anti-mouse Leptin antibody, ready to use

One vial of biotin labelled anti-mouse Leptin antibody, ready to use

One vial of Streptavidin tracer, ready to use

One vial of mouse Leptin standard, lyophilised

One vial of rat Leptin standard, lyophilised

One vial of Substrate (TMB) solution, ready to use

One vial of Stop solution (0.2 M H₂SO₄),

Two vials of EIA Buffer,

One vial of Biotin-Antibody buffer

Two vials of mouse Quality Controls, lyophilised

Two vials of rat Quality Controls, lyophilised

One vial of concentrated Wash buffer (10x), liquid

One instruction booklet

One template sheet

One well cover sheet

Each kit contains sufficient reagents for 96 wells. This allows for the construction of one standard curve in duplicate and the assay of 40 samples in duplicate.

For research laboratory use only. Not for diagnostic use.

Principle of the Assay

Leptin is a protein hormone with important effects in metabolism and regulating body weight. It is a singlechain 16 kDa protein consisting of 146 amino acid residues and encoded by the obese (ob) gene. Leptin is expressed predominantly by adipocytes, small amounts of leptin are also secreted by cells in the epithelium of stomach and in the placenta. Leptin's effect on body weight is mediated through effects on hypothalamic centers, where leptin receptors are highly expressed. Leptin has a dual action, it decreases the appetite and increases energy consumption.

A mutations in the ob gene of leptin or in the gene of leptin receptor causes

hyperphagia, reduced energy expenditure, and severe obesity in the ob/ob mice. Ob gene knockout mice are also characterized by several metabolic abnormalities including hyperglucocorticoidemia, hyperglycaemia, hyperinsulinemia and insulin 2 resistance. When ob/ob mice are treated with injections of leptin, they lose their excess fat and return to normal body weight.

Studies have shown that leptin appears to be a significant regulator of reproductive function. In addition, leptin is involved in bone metabolism and plays a significant role as an immunomodulator.

This Enzyme Immunometric Assay (EIA) is based on a double-antibody sandwich technique. The wells of the plate supplied with the kit are coated with a polyclonal antibody specific of mouse Leptin. This antibody will bind any mouse/rat Leptin introduced in the wells (sample or standard).

After one-hour incubation and a washing, biotin-labelled polyclonal anti-mouse Leptin antibody is added and incubated with captured Leptin during one hour.

After a thorough wash, streptavidin-horseradish peroxidase tracer is added and incubated for half an hour. This allows the two antibodies to form a sandwich by binding on different parts of the Leptin molecule. The sandwich complex is immobilised on the plate so the excess reagents may be washed away. The concentration of the Leptin is then determined by measuring the enzymatic activity of the HRP using the hydrogen peroxide/TMB solution. The reaction is stopped by addition of sulfuric acid solution. The HRP tracer acts on TMB Reagent to form a yellow compound.

The intensity of the colour, which is determined by spectrophotometry, is proportional to the amount of the leptin present in the well during the immunological incubation.

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