



# Rat Leptin ELISA Kit

For determination of rat leptin in plasma, serum and culture supernatant

Cat# YII-YK050-EX

Leptin, which is a product of *ob* gene, is a protein consisting of 167 amino acids and it is secreted from white adipose tissue. It is known that leptin acts on hypothalamus to decrease food intake and to reduce body weight, body fat, blood sugar and blood insulin in a healthy and an *ob/ob* mouse. Further, gene expression of neuropeptide Y(NPY) is suppressed by leptin.

Recently, radioimmunoassay for leptin determination in human plasma has become available and leptin level in human patient group with obesity was found to increase in comparison with that of normal group.

The level well correlate with body fat and these observations show clearly that leptin concentration in human plasma reflects the tissue fat weight. The measurement of plasma leptin may be an excellent index of obesity.

Although rat leptin shows a high homology(96%) with mouse leptin, it is observed that substitution of several amino acid residues occurs at both end N- and C- terminal region between human and rat leptin. These findings have required urgently to develop highly sensitive immunoassay system specific to rat leptin.

Yanaiharu Insutitute Inc. has developed the enzyme immunoassay (EIA) kit which is a stable and convenient assay system for rat leptin in its plasma, serum and culture supernatant.

## Composition

- |                                   |                    |
|-----------------------------------|--------------------|
| 1. Antibody coated plate          | 1 plate (96 wells) |
| 2. Rat Leptin standard            | 1 vial             |
| 3. HRP labeled antibody           | 1 bottle           |
| 4. Substrate buffer               | 1 bottle           |
| 5. OPD tablet                     | 2 tablets          |
| 6. Stopping solution              | 1 bottle           |
| 7. Buffer solution A              | 1 bottle           |
| 8. Buffer solution B              | 1 bottle           |
| 9. Washing solution(concentrated) | 1 bottle           |
| 10. Adhesive foil                 | 2 Sheets           |

Store at 2 to 8 ° C

Shelf life: 8 month



- Assay range:
  - 78.1 – 5,000 pg/mL(Culture sup. )
  - 312.5 – 20,000 pg/mL(Plasma&Serum)
- For 40 test samples in duplicate
- Test sample: Plasma,serum,culture sup.)
- Microplate: Divisible
- Test sample volume:
  - 20μL(plasma)
  - 50μL(culture.sup.)
- Test duration: 5.5 hours

Cat#	Description	Assay range	Assay sample volume	Assay time	Price
KII-YK050-EX	Rat Leptin ELISA Kit	78.1-20000 pg/ml	20 μ L (or 50 μ L) (Culture Supernatant, Plasma, Serum)	5.5 hr	¥60000 \$ 572 € 462



## Leptin Related Products [ Kit ]

Cat#	Description	Assay range	Assay sample volume	Assay time	Price
YII-YK051-EX	Rat Leptin-HS ELISA Kit	78.1-2500 pg/ml	25 $\mu$ L ( Serum, Plasma )	6.5hr	¥60000 \$ 572 € 462

## Leptin Related Products [ antibody ]

Cat#	Antigen	Host	Application	Quantity	Price
YII-YC040-EX	Leptin(Rat)	Rabbit	RIA , IHC	50 $\mu$ L	¥60000 \$ 572 € 462
YII-YC030-EX	TNF- $\alpha$ (Rat)	Rabbit	ELISA , WB	50 $\mu$ L	¥60000 \$ 572 € 462
YII-YC031-EX	TNF- $\alpha$ (Rat)	Goat	ELISA , WB	50 $\mu$ L	¥60000 \$ 572 € 462
YII-YK032-EX	TNF- $\alpha$ (Rat)	Monoclonal antibody YC032	ELISA , WB	50 $\mu$ L	¥60000 \$ 572 € 462

### Distributor



COSMO BIO CO., LTD.  
Inspiration for Life Science

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### Manufacturer



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