## Catalog# 90040

## **Rat Leptin ELISA Kit**

Sample Size: 5µl

**Samples:** Serum, plasma or fluid

**Tests:** 96 wells (8 wells x 12 modules) **Reagents:** In liquid form (except standard)

**Assay Range:** 0.2 – 12.8 ng/ml

**Assay Time:** Overnight procedure

**Precision:** Intra-assay precision CV ≤ 10.0%

Inter-assay precision CV ≤ 10.0%

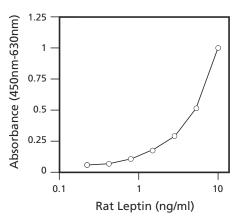
**Recovery:** When rat leptin was spiked into rat serum, the recovery of rat leptin was  $100.0\% \pm 20\%$ 

**Specificity:** Substance Reactivity

r-Rat leptin	100%
r-Mouse leptin	100%*
r-Human leptin	40%*
Mouse insulin	Not Detected
Rat C-Peptide	Not Detected
Rat pancreatic polypeptide	Not Detected
Glucagon (1-37)	Not Detected
Glucagon (1-29)	Not Detected
r-Human insulin like growth factor-l	Not Detected
r-Human insulin like growth factor-ll	Not Detected

<sup>\*</sup> Can vary from lot to lot. Specific cross-reactivity data is included with each kit.

## Typical Standard Curve:



Highlights: • Small Sample Volume: Only 5µl

• High Sensitivity: 200 pg/ml using 5µl sample

• **Precision:** Intra-assay and inter-assay precision CV ≤ 10.0%

## **Summary of Assay**

Rat Leptin ELISA Kit (Cat# 90040)

Affix the antibody-coated microplate to the frame

Wash each well two times with wash buffer\*

Dispense 45µl of sample diluent per well

Dispense 50µl of guinea pig anti-mouse leptin serum per well

Pipette 5µl of the sample (or working rat leptin standard) per well

Incubate the microplate overnight (16–20 hours) at 4°C

Wash each well five times with wash buffer\*

Uncubate the microplate for 3 hours at 4°C

Wash each well seven times with wash buffer\*

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Uncubate the microplate for 3 hours at 4°C

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Incubate microplate for 30 minutes at room temperature while avoiding exposure to light

Stop the enzyme reaction by adding 100  $\!\mu l$  of enzyme reaction stop solution per well

Measure  $A_{450}$  and subtract  $A_{630}$  values within 30 minutes

Calculate leptin concentrations using the standard curve

\* Each well should be washed with 300µl of wash buffer. Aspirate the wells completely so all excess solution is removed.