Catalog# 90030

## **Mouse 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%

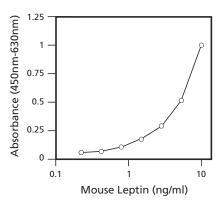
**Recovery:** When mouse leptin was spiked into mouse serum, the recovery of mouse leptin was  $100.0\% \pm 20\%$ 

**Specificity:** Substance Reactivity

r-Mouse leptin	100%
r-Rat 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-II	Not detected
Human Somatostatin	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**

**Mouse Leptin ELISA Kit** (Cat# 90030)

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 mouse leptin standard) per well Incubate the microplate overnight (16–20 hours) at 4°C Wash each well five times with wash buffer\* Dispense 100µl of anti-guinea pig IgG enzyme conjugate per well Incubate the microplate for 3 hours at 4°C Wash each well seven times with wash buffer\* Dispense 100µl of enzyme substrate solution per well Incubate microplate for 30 minutes at room temperature while avoiding exposure to light Stop the enzyme reaction by adding 100µl 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

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