

**BACKGROUND**

The so-called *ob* gene which is mutated in *ob/ob* mice, encodes a 4.5 kb mRNA that is apparently expressed solely in adipose tissue.<sup>1)</sup> Funahashi et al.<sup>2)</sup> examined the gene expression in fat tissues of a non-genetical obese model, VMH-lesioned rats. The *ob* mRNA was identified in both subcutaneous and mesenteric fat tissues in the control rats. The nucleotide sequence of the coding region of rat *ob* gene revealed that the predicted amino acid sequence was highly homologous to that of the mouse leptin (96% homology), but differs to that of human leptin, especially at several positions of the N and C-terminus (approximately 80% homology).

**IMMUNOGEN:** Recombinant Leptin (Rat)

**for RIA:** final x21,000 dilution

**for IMMUNOHISTOCHEMISTRY:** x 4,000 dilution

**SPECIFICITY:** Rat Leptin 100%, Human Leptin 10%

**AMINO ACID RESIDUES:** 167 Amino Acids

**STORAGE:** Keep frozen below -20°C  
Avoid repeated freezing-thawing

**REFERENCES:**

- 1) Y.Zhang, R.Proenca, M.Maffei, et al., Nature, 372:425-432, 1994
- 2) T.Funahashi, I.Shimomura, H.Hiraoka, et al., Biochem Biophys.Res.Comm., 211:469-475, 1995

FOR RESEARCH USE ONLY

<Distributed by>

SCETI K.K.

DF Kasumigaseki Place, 3-6-7 Kasumigaseki, Chiyoda-ku, Tokyo 100-0013 Japan

URL: <http://www.sceti.co.jp/export/> e-mail: [exp-pet@sceti.co.jp](mailto:exp-pet@sceti.co.jp)

<Manufacturer>

Yanaihara Institute Inc.

2480-1 Awakura, Fujinomiya-shi, Shizuoka 418-0011 JAPAN