

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.¹⁾ Funahashi et al.²⁾ 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 LABORATORY USE ONLY

DO NOT USE ORGANIC SOLVENTS FOR DISSOLVING ANTISERUM