



Anti-Human Leptin

20150304ML



FOR RESEARCH ONLY! NOT FOR HUMAN USE!

Cat.-no.:	101-M74
Size:	500 µg
Lot. No.:	According to product label

Preparation: Monoclonal antibodies were produced in BALB/c mice using recombinant human Leptin as the immunizing antigen. This IgG1/K antibody was purified from a Protein A chromatography column.

Target Background

Synonyms (Target):	LEP; OB; OBS
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Leptin is a product of the mouse obese gene. Mice with mutations in the obese gene that block the synthesis of leptin are obese and diabetic, and have reduced activity, metabolism, and body temperature. Rat leptin shares approximately 96% and 82% sequence identity with the mouse and human protein, respectively. The expression of leptin mRNA is restricted to adipose tissue.

Database References Target

Protein RefSeq:	NP_000221.1
Uniprot ID:	P41159
mRNA RefSeq:	NM_000230

Product Specifications

Species reactivity	Human
Cross reactivity	Human
Host	Mouse
Clonality	Monoclonal Antibody
Purification	Protein A chromatography
Immunogen	Recombinant Human Leptin
Formulation	lyophilized
Reconstitution buffer	water

Reconstitution: Reconstitute the antibody in sterile water to a concentration of 0.1 - 1.0 mg/ml.

Stability: Lyophilized antibody is stable at room temperature for up to 1 month. The reconstituted antibody is stable for at least 2 weeks at 2-8°C. Frozen aliquots are stable for at least 6 months when stored at -20°C.



AVOID REPEATED FREEZE AND THAW CYCLES!

Applications

ELISA: This antibody can be used at a concentration of 1 - 2 µg/ml, as a capture antibody in conjunction with a compatible secondary reagent to yield satisfactory results in a sandwich ELISA (using 100 µl/well antibody solution).

Western Blot: To detect hLeptin by Western Blot analysis this antibody can be used at a concentration of 0.2 - 0.4 µg/ml. Used in conjunction with compatible secondary reagents the detection limit for recombinant hLeptin is 2 - 4 ng/lane, under non-reducing conditions.

NOTE: OPTIMAL DILUTIONS SHOULD BE DETERMINED BY EACH LABORATORY FOR EACH APPLICATION!