antibodies

Datasheet for ABIN1097077 Leptin Protein (LEP) (AA 22-167)



Overview	
Quantity:	50 µg
Target:	Leptin (LEP)
Protein Characteristics:	AA 22-167
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Product Details	
Purpose:	Recombinant Human Leptin
Sequence:	VPIQKVQDDT KTLIKTIVTR INDISHTQSV SSKQKVTGLD FIPGLHPILT LSKMDQTLAV YQQILTSMPS RNVIQISNDL ENLRDLLHVL AFSKSCHLPW ASGLETLDSL GGVLEASGYS TEVVALSRLQ GSLQDMLWQL DLSPGC
Characteristics:	Recombinant Human Leptin is produced with our E. coli expression system. The target protein is expressed with sequence (Val22-Cys167) of Human Leptin.
Purity:	> 95 % as determined by reducing SDS-PAGE.
Sterility:	0.2 µm filtered
Endotoxin Level:	Less than 0.1 ng/µg (1 IEU/µg) as determined by LAL test
Target Details	
Target:	Leptin (LEP)
Alternative Name:	leptin (LEP Products)

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Target Details

Background:	Leptin is a hormone secreted from white adipocytes and plays important role in the regulation
	of food intake and energy balance. Leptin functions via signaling pathways involving OB-R in
	hypothalamus. Animal models have revealed the influence of Leptin in reducing body weight
	and regulating blood glucose level. When mutations are introduced in obese gene, mice with
	impaired function of leptin are massively obese and in high risk of diabetes. Leptin deficiency
	reduces metablic rate. Leptin deficient mice are less active and with lower body temperature
	than normal animals. Human Leptin shares approximately 84% sequence identity with the
	mouse protein. Human Leptin consists of 167 amino acid residue including a 21 amino acid
	residue signal sequence and 146 amino acid residue mature protein sequence.
	Alternative Names: Leptin, Obese Protein, Obesity Factor, LEP, OB, OBS
Molecular Weight:	16.1 kDa
UniProt:	P41159
Pathways:	JAK-STAT Signaling, AMPK Signaling, Hormone Transport, Peptide Hormone Metabolism,
	Hormone Activity, Negative Regulation of Hormone Secretion, Regulation of Carbohydrate
	Metabolic Process, Feeding Behaviour, Monocarboxylic Acid Catabolic Process

Application Details

Restrictions:	For Research Use only
Handling	
Format:	Lyophilized
Reconstitution:	It is not recommended to reconstitute to a concentration less than 100 µg/mL. Dissolve the lyophilized protein in ddH2O. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.
Buffer:	Lyophilized from a 0.2 μm filtered solution of 20 mM PB, 150 mM NaCl, pH 7.4.
Handling Advice:	Always centrifuge tubes before opening. Do not mix by vortex or pipetting.
Storage:	4 °C/-20 °C/-80 °C
Storage Comment:	Lyophilized protein should be stored at < -20°C, though stable at room temperature for 3 weeks. Reconstituted protein solution can be stored at 4-7°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.

Expiry Date:

3 months

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