Recombinant Human LEPR

Cat. No. LEPR-29427TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant fragment of Human Leptin Receptor protein with an N terminal proprietary tag; predicted mwt: 36.63 kDa inclusive of tag.
Species	Human
Source	Wheat Germ
ProteinLength	100 amino acids
Description	The protein encoded by this gene belongs to the gp130 family of cytokine receptors that are known to stimulate gene transcription via activation of cytosolic STAT proteins. This protein is a receptor for leptin (an adipocyte-specific hormone that regulates body weight), and is involved in the regulation of fat metabolism, as well as in a novel hematopoietic pathway that is required for normal lymphopoiesis. Mutations in this gene have been associated with obesity and pituitary dysfunction. Alternatively spliced transcript variants encoding different isoforms have been described for this gene. It is noteworthy that this gene and LEPROT gene (GeneID:54741) share the same promoter and the first 2 exons, however, encode distinct proteins (PMID:9207021).
Molecular Weight	36.630kDa inclusive of tags
Tissue specificity	Isoform A is expressed in fetal liver and in hematopoietic tissues and choroid plexus. In adults highest expression in heart, liver, small intestine, prostate and ovary. Low level in lung and kidney. Isoform B is highly expressed in hypothalamus.

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Form	Liquid
Purity	Proprietary Purification
Storage buffer	pH: 8.00Constituents:0.79% Tris HCl, 0.3% Glutathione
Storage	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
Sequences of amino acids	WRFKLSCMPPNSTYDYFLLPAGLSKNTSNSNGHYETAVEPKFNSSGTHFSNLSKTT FHCCFRSEQDRNCSLCADNIEGKTFVSTVNSLVFQQIDANWNIQ
Sequence Similarities	Belongs to the type I cytokine receptor family. Type 2 subfamily.Contains 4 fibronectin type-III domains.Contains 1 Ig-like (immunoglobulin-like) domain.

GENE INFORMATION

Gene ID	LEPR leptin receptor [Homo sapiens]
Official Symbol	LEPR
Synonyms	LEPR; leptin receptor; CD295; OBR;

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