

## Active Recombinant Human LEPR Protein, His&Avi tagged

Cat. No. LEPR-75H Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	ObR protein dimer contains an ObR extracellular domain (UniProt# P48357) fused with a proprietary cis-dimer motif followed by a tandem His-Avi tag at the C-terminus.
<b>Species</b>	Human
<b>Source</b>	HEK293T
<b>ProteinLength</b>	22-839 aa
<b>Description</b>	Human obesity receptor (ObR) is a Type I transmembrane receptor belonging to the cytokine receptor family. ObR is the receptor of leptin, a hormone secreted by fat cells that plays a crucial role in regulating appetite, metabolism, and energy homeostasis. ObR is also known as OB-R, leptin receptor (LEPR), LEPRD, and cluster of differentiation 295 (CD295). ObR contains an extracellular domain with an N-terminal cytokine receptor homology domain (CRH-1); an immunoglobulin-like (Ig-like) domain; a second CRH domain (CRH-2), also referred to as the leptin-binding domain (LBD); and two fibronectin type III (FNIII) domains followed by a transmembrane domain and cytoplasmic domain. ObR functions as a dimer to mediate leptin signaling. ObR binds leptin and its activity regulates adipose-tissue mass making ObR an attractive target when it comes to combating obesity.
<b>Molecular Mass</b>	207 kDa
<b>Homodimer/Heterodimer</b>	Homodimer

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<b>Purity</b>	Greater than 90% dimer form as determined by SDS-PAGE under non-reducing condition
<b>Application</b>	Verified Applications: ELISA for ObR-specific antibody and leptin ligand protein binding assays. Suggested Applications: ELISA for ObR-specific antibody and leptin ligand protein binding assays. SPR & BLI for ObR-specific antibody and leptin protein binding assays. Animal immunization, RUO.
<b>Storage</b>	At -80 centigrade
<b>Storage Buffer</b>	0.2µm filtered PBS, pH 7.4, no preservatives
<b>Shipping</b>	Frozen Dry Ice

## GENE INFORMATION

<b>Gene Name 2</b>	LEPR leptin receptor [Homo sapiens (human)]
<b>Official Symbol 2</b>	LEPR
<b>Synonyms 2</b>	LEPR; leptin receptor; CD295; OBR; huB219; OB receptor; OB-R; LEP-R; DKFZp686B1731;
<b>Gene ID 2</b>	3953
<b>mRNA Refseq 2</b>	NM_001003679
<b>Protein Refseq 2</b>	NP_001003679
<b>MIM 2</b>	601007

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<b>UniProt ID 2</b>	P48357
<b>Gene Name</b>	IL2RG interleukin 2 receptor, gamma [Homo sapiens (human)]
<b>Official Symbol</b>	IL2RG
<b>Synonyms</b>	IL2RG; interleukin 2 receptor, gamma; CIDX, combined immunodeficiency, X linked, IMD4, SCIDX1, severe combined immunodeficiency; cytokine receptor common subunit gamma; CD132; gammaC; gamma(c); CD132 antigen; common gamma-chain; IL-2R subunit gamma; IL-2 receptor subunit gamma; severe combined immunodeficiency; combined immunodeficiency, X-linked; common cytokine receptor gamma chain; interleukin-2 receptor subunit gamma; P64; CIDX; IMD4; SCIDX; IL-2RG; SCIDX1;
<b>Gene ID</b>	3561
<b>mRNA Refseq</b>	NM_000206
<b>Protein Refseq</b>	NP_000197
<b>MIM</b>	308380
<b>UniProt ID</b>	P31785
<b>Bioactivity-Antibody Binding</b>	Immobilized human ObR-His-Avi protein dimer at 2 µg/mL (100 µL/well) can bind anti-human ObR monoclonal antibody with half maximal effective concentration (EC50) range of 16.8-67.2 ng/mL (QC tested).

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**Bioactivity-Ligand  
Binding**

Immobilized human Leptin at 2 µg/mL (100 µL/well) can bind human ObR-His-Avi protein dimer with half maximal effective concentration (EC50) range of 0.1-0.5 µg/mL (QC tested).

**SDS-PAGE**

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