

**Human CellExp LEPR/CD295, human recombinant protein**  
**LEPR, CD295, DKFZp686B1731, LEP-R, OB-R, OBR, Leptin receptor**  
**Catalog # PBV11118r**

## Specification

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### Human CellExp LEPR/CD295, human recombinant protein - Product info

Primary Accession  
Calculated MW

[P48357](#)

This protein is fused with Fc fragment of human IgG1 at the C-terminus and has a calculated MW of 121 kDa expressed. The predicted N-terminus is Phe22. Protein migrates as 150-165 kDa in reduced SDS-PAGE resulting from glycosylation. KDa

### Human CellExp LEPR/CD295, human recombinant protein - Additional Info

Gene ID  
Gene Symbol  
**Other Names**  
LEPR, CD295, DKFZp686B1731, LEP-R, OB-R, OBR, Leptin receptor

**3953**  
**LEPR**

Gene Source  
Source  
Assay&Purity  
Assay2&Purity2  
Recombinant  
Results

**Human**  
**HEK293 cells**  
**SDS-PAGE; ≥95%**  
**N/A;**  
**Yes**  
**Measured by its ability to inhibit**  
**Leptin-dependent proliferation of BaF3**  
**mouse pro-B cells transfected with**  
**rhLEPR-Fc. The ED50 for this effect is**  
**typically 0.015-0.13 µg/ml in the presence**  
**of 3 ng/ml rhLeptin.**

**Target/Specificity**  
LEPR/CD295

### Application Notes

Centrifuge the vial prior to opening. Reconstitute in sterile PBS, pH 7.4 to a concentration of 50 µg/ml. Do not vortex. This solution can be stored at 2-8°C for up to 1 month. For extended storage, it is recommended to store at -20°C.

**Format**  
Lyophilized

**Storage**  
-20°C; Lyophilized from 0.22 µm filtered solution in PBS, pH 7.4. Normally Mannitol or Trehalose is added as protectants before lyophilization.

**Human CellExp LEPR/CD295, human recombinant protein - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

**Human CellExp LEPR/CD295, human recombinant protein - Images****Human CellExp LEPR/CD295, human recombinant protein - Background**

Leptin receptor (LEPR), also known as LEP-R, cluster of differentiation 295 (CD295), OB-R and B219, is a single-transmembrane-domain receptor of the gp130 family of cytokine receptors. Leptin receptor exists as homodimer and binds Leptin with high affinity, thus mediates the biological function of the adipocyte-specific hormone Leptin. LEPR 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 protein have been associated with obesity and pituitary dysfunction. Interaction of leptin and leptin receptor is crucial for body weight and bone mass regulation in mammals through hypothalamic effects on satiety and energy expenditure. Meanwhile, research data supports a leptin receptor activation model based on ligand-induced conformational changes.

**Human CellExp LEPR/CD295, human recombinant protein - References**

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Bennett B.D., et al. Curr. Biol. 6:1170-1180(1996).  
Cioffi J.A., et al. Nat. Med. 2:585-589(1996).  
Thompson D.B., et al. Hum. Mol. Genet. 6:675-679(1997).  
Luoh S.-M., et al. J. Mol. Endocrinol. 18:77-85(1997).