

Datasheet for ABIN2566758

Leptin Receptor Protein (LEPR) (Fc Tag)[Go to Product page](#)

Overview

Quantity:	0.1 mg
Target:	Leptin Receptor (LEPR)
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This Leptin Receptor protein is labelled with Fc Tag.
Application:	Western Blotting (WB)

Product Details

Characteristics:	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. Fusion tag: C-Fc Tag
Purity:	>95 % as determined by SDS-PAGE.

Target Details

Target:	Leptin Receptor (LEPR)
Alternative Name:	LEPR (LEPR Products)
Background:	Leptin receptor (LEPR) is 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.

Target Details

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.

Molecular Weight:	121 kDa
Gene ID:	3953
NCBI Accession:	NP_002294
UniProt:	P48357
Pathways:	JAK-STAT Signaling , AMPK Signaling , Feeding Behaviour

Application Details

Application Notes:	This recombinant protein can be used for WB. For research use only.
Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Buffer:	PBS, pH 7.4
Storage:	-80 °C,-20 °C
Storage Comment:	Lyophilized Protein should be stored at -20°C or lower for long term storage. Upon reconstitution, working aliquots should be stored at -20°C or -70°C. Avoid repeated freeze-thaw cycles.