Datasheet for ABIN2181459

Leptin Receptor Protein (LEPR) (AA 22-839) (Fc Tag)

1 Image

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Overview

Quantity:	100 µg
Target:	Leptin Receptor (LEPR)
Protein Characteristics:	AA 22-839
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This Leptin Receptor protein is labelled with Fc Tag.

Product Details

Sequence:	AA 22-839
Characteristics:	This protein carries a human IgG1 Fc tag at the C-terminus. The protein has a calculated MW of 121 kDa. The protein migrates as 150-165 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.
Purity:	>90 % as determined by SDS-PAGE.
Endotoxin Level:	Less than 1.0 EU per µg by the LAL method.

Target Details

Target:	Leptin Receptor (LEPR)
Alternative Name:	Leptin R (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

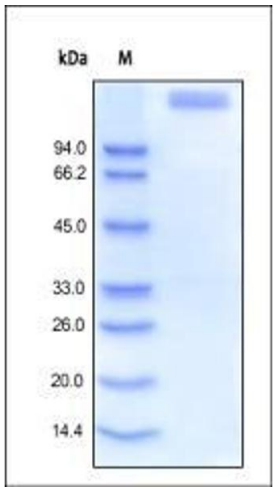
	Leptin receptor exists as homodimer and binds Leptin with high affinity, thus mediates the biological function of the adipocyte-specific hormone Leptin. LEPR is a receptor for leptin (an adipocyte-specific hormone that regulates body weight), and is involved in the regulation of fat metabolism, as well 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:	119.6 kDa
NCBI Accession:	NP_002294
Pathways:	JAK-STAT Signaling, AMPK Signaling, Feeding Behaviour

Application Details

Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Buffer:	50 mM Tris, 100 mM Glycine, pH 7.5
Handling Advice:	Please avoid repeated freeze-thaw cycles.
Storage:	-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.



SDS-PAGE

Image 1. Human Leptin R, Fc Tag on SDS-PAGE under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 95%.