

Datasheet for ABIN7319902

**Leptin Receptor Protein (LEPR) (Fc Tag)****1** Image[Go to Product page](#)

## Overview

Quantity:	50 µg
Target:	Leptin Receptor (LEPR)
Origin:	Human
Source:	Human Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This Leptin Receptor protein is labelled with Fc Tag.

## Product Details

Purpose:	Recombinant Human LEPR (C-Fc)
Sequence:	Phe22-Asp839
Characteristics:	Recombinant Human Leptin Receptor is produced by our Mammalian expression system and the target gene encoding Phe22-Asp839 is expressed with a Fc tag at the C-terminus.
Purity:	>95 % as determined by reducing SDS-PAGE.
Endotoxin Level:	< 1.0 EU per µg as determined by the LAL method.

## Target Details

Target:	Leptin Receptor (LEPR)
Alternative Name:	LEPR ( <a href="#">LEPR Products</a> )
Background:	Background: The Leptin receptor is a member of the Class I cytokine receptor family. It mediates the activities of Leptin, a multi-functional hormone produced primarily by adipose tissues that plays roles in food intake, energy metabolism, angiogenesis, reproduction,

## Target Details

hematopoiesis, bone metabolism, and immune function. The human Leptin R gene encodes 1165 amino acids (aa) including a signal peptide, an extracellular region with cytokine receptor homology (CRH), multiple fibronectin type III domains and a WSXWS motif, a transmembrane domain, and a cytoplasmic domain that supports JAK/STAT signaling. Soluble Leptin R is the primary Leptin-binding protein in blood, where it maintains a pool of available bioactive Leptin, delays Leptin clearance from circulation, and down-regulates blood-brain transmission of Leptin. In humans, soluble Leptin R levels are inversely proportional to adiposity and are elevated in females versus males. Soluble Leptin R is also found up-regulated in patients with chronic heart failure, end-stage renal disease, and anorexia. It is expressed by tumor-initiating stem cells, and is proposed as a link between cancer and obesity.

Synonym: Leptin receptor, LEP-R, HuB219, OB receptor, OB-R, CD295, LEPR, DB, OBR

Molecular Weight: 120.4 kDa

UniProt: [P48357](#)

Pathways: [JAK-STAT Signaling](#), [AMPK Signaling](#), [Feeding Behaviour](#)

## Application Details

Restrictions: For Research Use only

## Handling

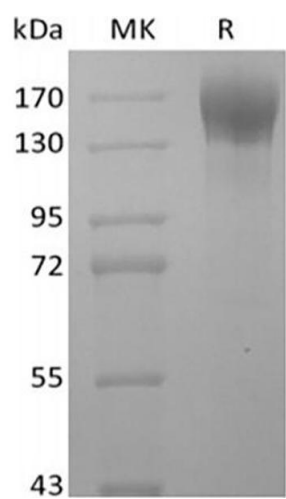
Format: Lyophilized

Reconstitution: Please refer to the printed manual for detailed information.

Buffer: Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4.

Storage: 4 °C, -20 °C, -80 °C

Storage Comment: Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.



Western Blotting

Image 1.