PRODUCT INFORMATION

Target	LEPR
Synonyms	OBR;OB-R;CD295;LEP-R;LEPRD
Description	Recombinant human LEPR Protein with C-terminal 6×His tag
Delivery	In Stock
Uniprot ID	P48357
Expression Host	HEK293
Tag	C-6×His Tag
Molecular Characterization	LEPR(Phe22-Asp839) 6×His tag
Molecular Weight	The protein has a predicted molecular mass of 94.3 kDa after removal of the signal peptide. The apparent molecular mass of LEPR-His is approximately 130-250 kDa due to glycosylation.
Purity	The purity of the protein is greater than 85% as determined by SDS-PAGE and Coomassie blue staining.
Formulation & Reconstitution	Lyophilized from sterile PBS, pH 7.4. Normally 5 % – 8% trehalose is added as protectants before lyophilization. Please see Certificate of Analysis for specific instructions of reconstitution.
Storage&Shipping	Store at -20°C to -80°C for 12 months in lyophilized form. After reconstitution, if not intended for use within a month, aliquot and store at -80°C (Avoid repeated freezing and thawing). Lyophilized proteins are shipped at ambient temperature.
Background	The protein encoded by this gene belongs to the gp130 family of cytokine receptors that are known to stimulate gene transcription via activation of cytosolic STAT proteins. This protein 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 gene have been associated with obesity and pituitary dysfunction. Alternatively spliced transcript variants encoding different isoforms have been described for this gene. It is noteworthy that this gene and LEPROT gene (GeneID:54741) share the same promoter and the first 2 exons, however, encode distinct proteins (PMID:9207021).[provided by RefSeq, Nov 2010]
Usage	Research use only
Conjugate	Unconjugated

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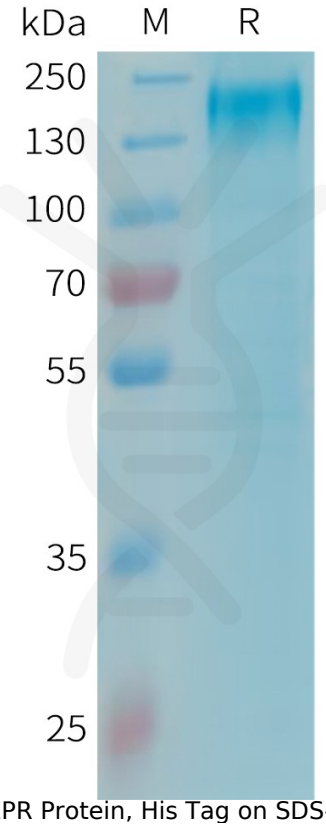


Figure 1. Human LEPR Protein, His Tag on SDS-PAGE under reducing condition.

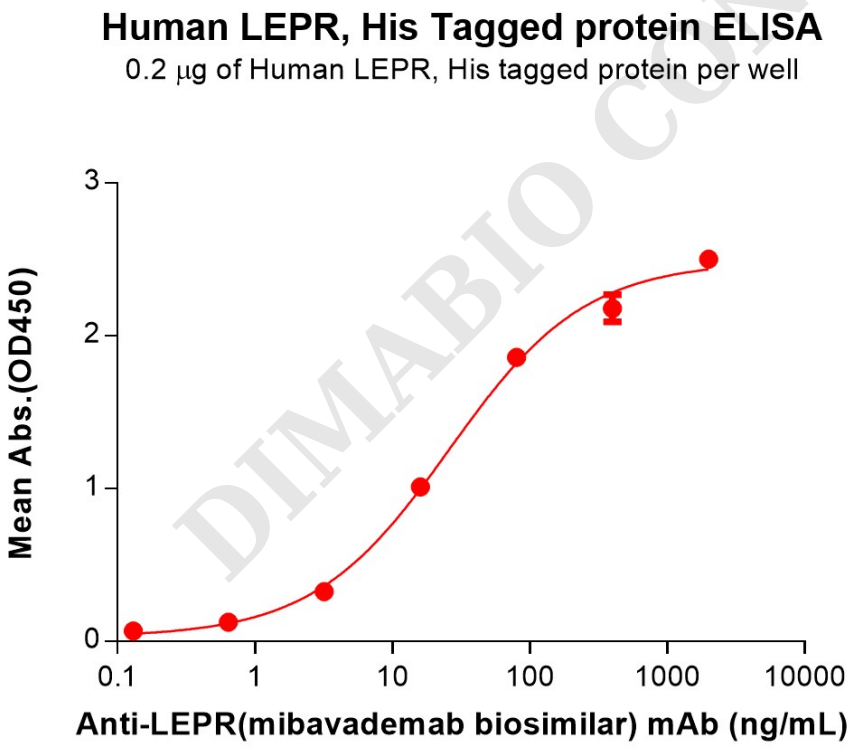


Figure 2. ELISA plate pre-coated by 2 μg/mL (100 μL/well) Human LEPR Protein, His Tag (PME101345) can bind Anti-LEPR(mibavademab biosimilar) mAb (BME100246) in a linear range of 3.20–400 ng/mL.

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