

Human Phospho-Leptin R (Y985) Antibody

Antigen Affinity-purified Polyclonal Rabbit IgG Catalog Number: AF4229

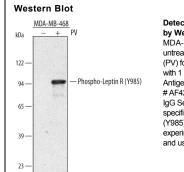
DESCRIPTION	
Species Reactivity	Human
Specificity	Detects human Leptin R when phosphorylated at Y985 in Western blots.
Source	Polyclonal Rabbit IgG
Purification	Antigen Affinity-purified
Immunogen	Phosphopeptide containing human Leptin R Y985 site
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied as a 0.2 µm filtered solution in PBS.

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application, General Protocols are available in the Technical Information section on our website

Trade Note: Opurnar analogic cricara de determinad dy Cada	Recommended Concentration	Sample
Western Blot	1 μg/mL	See Below

DATA



Detection of Human Phospho-Leptin R (Y985) by Western Blot. Western blot shows lysates of MDA-MB-468 human breast cancer cell line untreated (-) or treated (+) with 100 μM pervanadate (PV) for 10 minutes. PVDF membrane was probed with 1 μg/mL of Human Phospho-Leptin R (Y985) Antigen Affinity-purified Polyclonal Antibody (Catalog # AF4229), followed by HRP-conjugated Anti-Rabbit IgG Secondary Antibody (Catalog # HAF008). A specific band was detected for Phospho-Leptin R (Y985) at approximately 100 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.

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Reconstitution Reconstitute at 0.2 mg/mL in sterile PBS.

ShippingThe product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

*Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C

Stability & Storage

Use a manual defrost freezer and avoid repeated freeze-thaw cycles.

- 12 months from date of receipt, -20 to -70 °C as supplied.
- 1 month, 2 to 8 °C under sterile conditions after reconstitution
- 6 months, -20 to -70 °C under sterile conditions after reconstitution.

BACKGROUND

Leptin receptor (OB-R), also named B219, is a type I cytokine receptor family protein with significant amino acid sequence identity with gp130, G-CSF receptor, and the LIF receptor. Multiple isoforms of human and mouse OB-R, including a long form (OB-R_L) with a large cytoplasmic domain capable of signal-transduction, and several receptor isoforms with short cytoplasmic domains (OB-R_s) lacking signal-transducing capabilities, have been identified. The extracellular domains of the short and long forms of OB-R are identical. An OB-R transcript, lacking a transmembrane domain and potentially encoding a soluble form of the receptor, has also been described. OB-R_L transcripts were reported to be expressed predominantly in regions of the hypothalamus previously thought to be important in body weight regulation. Expression of OB-R_s transcripts have been found in multiple tissues, including the choroid plexus, lung, kidney, and primitive hematopoietic cell populations. OB-R has been shown to be encoded by the mouse diabetes (*db*) and rat fatty (*fa*) genes. Rodents homozygous for the *db* or *fa* mutations have been known to exhibit an obesity phenotype.

Human OB-R long form encodes a 1165 amino acid (aa) residue precursor protein with a 22 aa residue signal peptide, an 819 aa residue extracellular domain, a 21 aa residue transmembrane domain and a 303 aa residue cytoplasmic domain. The extracellular domain of OB-R contain two hemopoietin receptor domains, a fibronectin type III domain and the WSXWS domain. Recombinant soluble OB-R has been shown to bind Leptin with high affinity and is a potent Leptin antagonist.

References:

- 1. Tartaglia, L.A. et al. (1995) Cell 83:1263.
- 2. Cioffi, J.A. et al. (1996) Nature Medicine 2:585.
- 3. Tartaglia, L.A. (1997) J. Biol. Chem. 272:6093.

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