

Datasheet for ABIN7157994

anti-Leptin Receptor antibody (AA 874-1075) (Biotin)[Go to Product page](#)

Overview

Quantity:	100 µg
Target:	Leptin Receptor (LEPR)
Binding Specificity:	AA 874-1075
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Leptin Receptor antibody is conjugated to Biotin
Application:	ELISA

Product Details

Immunogen:	Recombinant Human Leptin receptor protein (874-1075AA)
Isotype:	IgG
Cross-Reactivity:	Human
Purification:	>95%, Protein G purified

Target Details

Target:	Leptin Receptor (LEPR)
Alternative Name:	LEPR (LEPR Products)
Background:	Background: Receptor for hormone LEP/leptin (Probable) (PubMed:22405007). On ligand binding, mediates LEP central and peripheral effects through the activation of different

Target Details

signaling pathways such as JAK2/STAT3 and MAPK cascade/FOS. In the hypothalamus, LEP acts as an appetite-regulating factor that induces a decrease in food intake and an increase in energy consumption by inducing anorexigenic factors and suppressing orexigenic neuropeptides, also regulates bone mass and secretion of hypothalamo-pituitary-adrenal hormones (By similarity) (PubMed:9537324). In the periphery, increases basal metabolism, influences reproductive function, regulates pancreatic beta-cell function and insulin secretion, is pro-angiogenic and affects innate and adaptive immunity (PubMed:25060689, PubMed:12504075, PubMed:8805376). Control of energy homeostasis and melanocortin production (stimulation of POMC and full repression of AgRP transcription) is mediated by STAT3 signaling, whereas distinct signals regulate NPY and the control of fertility, growth and glucose homeostasis. Involved in the regulation of counter-regulatory response to hypoglycemia by inhibiting neurons of the parabrachial nucleus. Has a specific effect on T lymphocyte responses, differentially regulating the proliferation of naive and memory T -ells. Leptin increases Th1 and suppresses Th2 cytokine production (By similarity).

Aliases: CD 295 antibody, CD295 antibody, CD295 antigen antibody, Db antibody, Fa antibody, HuB219 antibody, LEP R antibody, LEP-R antibody, LEPR antibody, LEPR_HUMAN antibody, LEPRD antibody, Leptin receptor antibody, Leptin receptor fatty antibody, Leptin receptor gene related protein antibody, Leptin receptor precursor antibody, Leptin receptor precursor antibody, OB R gene related protein antibody, OB receptor antibody, OB-R antibody, OB-RGRP antibody, obl antibody, Obr antibody

UniProt: [P48357](#)

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

Application Details

Application Notes: Optimal working dilution should be determined by the investigator.

Restrictions: For Research Use only

Handling

Format: Liquid

Buffer: Preservative: 0.03 % Proclin 300
Constituents: 50 % Glycerol, 0.01M PBS, PH 7.4

Preservative: ProClin

Precaution of Use: This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE which should be

Handling

handled by trained staff only.

Storage: -20 °C,-80 °C

Storage Comment: Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.