

Datasheet for ABIN7126639

anti-Leptin Receptor antibody (AA 335-425)



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Overview

Quantity:	100 µg
Target:	Leptin Receptor (LEPR)
Binding Specificity:	AA 335-425
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This Leptin Receptor antibody is un-conjugated
Application:	Immunohistochemistry (Formalin-fixed Sections) (IHC (f))

Product Details

Immunogen:	Recombinant fragment (around aa335-425) of human LEPR protein (exact sequence is proprietary)
Isotype:	IgG2b
Specificity:	Although there is substantial evidence that body weight is physiologically regulated, the molecular basis of obesity is unknown. Five single-gene mutations in mice that result in an obese phenotype have been identified. The first such recessive obesity mutation, the obese mutation (Ob), was identified in 1950. Mutation of Ob results in profound obesity and type II diabetes as part of a syndrome that resembles morbid obesity in humans. It has been postulated that the Ob gene product may function as a component of a signaling pathway in adipose tissue that functions to regulate body fat depot size. The cloning and sequence analysis of the mouse Ob gene and its human homolog has recently been described. Ob encodes an adipose tissue-specific mRNA with a highly conserved 167 amino acid open

Product Details

reading frame. The predicted amino acid sequence is 84 % identical between human and mouse and has the features of a secreted protein. A nonsense mutation in codon 105 has been found in the original congenic C57BL/6J Ob/Ob mouse strain. The Ob gene encodes the protein leptin. The leptin receptor, designated Ob-R, has been shown to be a single membrane-spanning receptor that most resembles the gp130 signal transducing component of the IL-6, G-CSF and LIF receptor. Ob-R mRNA is expressed in the choroid plexus and hypothalamus.

Cross-Reactivity (Details): Human.

Purification: 1.0mg/ml of Ab purified from Bioreactor by Protein A/G.

Target Details

Target: Leptin Receptor (LEPR)

Alternative Name: LEPR ([LEPR Products](#))

Background: Db, Fa, HuB219, LEP-R, LEPR, LEPRD, Leptin receptor, Leptin receptor fatty, Leptin receptor gene related protein, Leptin receptor precursor, OB R gene related protein (OB-RGRP), OB receptor (OBR / OB-R), ob, Leptin Receptor (LEPR) / Ob-R / CD295
Cellular localisation: Secreted. Cell surface.

Molecular Weight: 100kDa / 125kDa (short / long form)

Gene ID: 3953

UniProt: [P48357](#)

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

Application Details

Application Notes: Known_Application: Immunohistochemistry (Formalin-fixed) (1-2 µg/mL for 30 minutes at RT),(Staining of formalin-fixed tissues requires heating tissue sections in 10 mM Tris with 1 mM EDTA, pH 9.0, for 45 min at 95 °C followed by cooling at RT for 20 minutes),Optimal dilution for a specific application should be determined.
Positive_Control: HepG2 or HeLa cells. Human heart, small intestine or fetal liver.

Restrictions: For Research Use only

Handling

Concentration: 1.0 mg/mL

Handling

Buffer:	Prepared in 10 mM PBS, WITHOUT BSA and Azide.
Preservative:	Azide free
Storage:	-20 °C,-80 °C
Storage Comment:	Antibody without azide - store at -20 to -80 °C. Antibody is stable for 24 months. Non-hazardous.
Expiry Date:	24 months