

Mouse anti-Human Leptin Receptor (LEPR)/Ob-R/CD295 Monoclonal Antibody | anti-LEPR antibody

Leptin Receptor (LEPR)/Ob-R/CD295 Mouse Monoclonal Antibody [Clone LEPR/4301]

CATALOG # AAA215773	HOST Mouse	REACTIVITY Human	APPLICATIONS Immunohistochemistry
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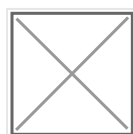
PRODUCT SYNONYMS

Leptin Receptor (LEPR)/Ob-R/CD295; Monoclonal Antibody; Leptin Receptor (LEPR)/Ob-R/CD295 Mouse Monoclonal Antibody [Clone LEPR/4301]; 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); obl; anti-LEPR antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human
Clonality	Monoclonal
Isotype	Mouse/IgG1, kappa
Clone Number	LEPR/4301
Form/Format	200ug/ml of Ab purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.
Concentration	Purified Ab with BSA and Azide at 200ug/ml OR Purified Ab WITHOUT BSA and Azide at 1.0mg/ml (varies by lot)
Applicable Applications for anti-LEPR antibody	IHC (Immunohistochemistry)
Immunogen	Recombinant fragment (around aa335-425) of human LEPR protein (exact sequence is proprietary)
Cellular Localization	Secreted, Cell surface
Positive Control	HepG2 or HeLa cells. Human heart, small intestine or fetal liver.
Hu-chromosome Location	1p31.3
Unigene	23581 & 723178
Preparation and Storage	Antibody with azide: store at 2 to 8 degree C Antibody without azide: store at -20 to -80 degree C Antibody is stable for 24 months. Non-hazardous. No MSDS required.

IMAGES



IHC (Immunohistochemistry)

Formalin-fixed, paraffin-embedded human liver stained with Leptin Receptor Mouse Monoclonal Antibody (LEPR/4301).

ADDITIONAL INFORMATION

Related Product Information for anti-LEPR antibody	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 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.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	51093379
NCBI GeneID	3953
NCBI Accession #	NP_001003679.1
NCBI GenBank Nucleotide #	NM_001003679.3
UniProt Accession #	P48357; Q13592; Q13593; Q13594; Q92919; Q92920; Q92921
Molecular Weight	132,494 Da
NCBI Official Full Name	leptin receptor isoform 3
NCBI Official Synonym Full Names	leptin receptor
NCBI Official Symbol	LEPR
NCBI Official Synonym Symbols	OBR; OB-R; CD295; LEP-R; LEPRD
NCBI Protein Information	leptin receptor; huB219; OB receptor
UniProt Protein Name	Leptin receptor
UniProt Gene Name	LEPR
UniProt Synonym Gene Names	DB; OBR; LEP-R; OB-R
UniProt Entry Name	LEPR_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/monoclonal/leptin-receptor-lepr-ob-r-cd295-antibody-clone-lepr-4301-immunohistochemistry-elisa/215773>