

Rabbit anti-Rat Leptin Receptor Polyclonal Antibody | anti-LEPR antibody

Anti-Leptin Receptor Antibody, Rabbit Polyclonal

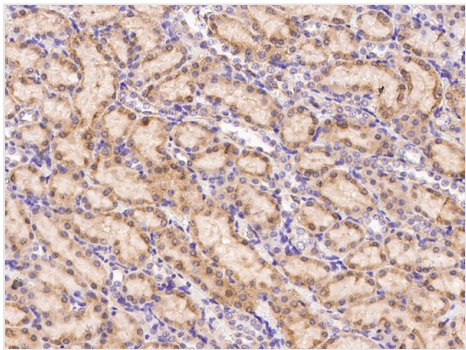
CATALOG # AAA254679	HOST Rabbit	REACTIVITY Rat	APPLICATIONS Immunohistochemistry, Western Blot
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PRODUCT SYNONYMS

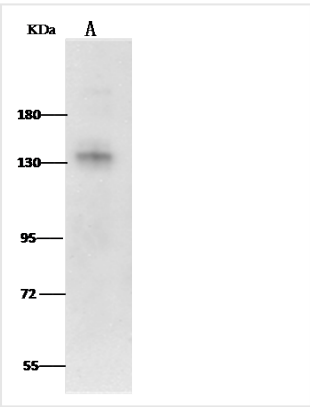
Leptin Receptor; Polyclonal Antibody; Anti-Leptin Receptor Antibody; Rabbit Polyclonal; Leptin Receptor/CD295 Antibody; Rabbit PAb; Antigen Affinity Purified; leptin receptor; anti-LEPR antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Rat
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Rat Leptin Receptor/CD295
Purity/Purification	Protein A & Antigen Affinity
Form/Format	Liquid; 0.2um filtered solution in PBS
Applicable Applications for anti-LEPR antibody	IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthetic peptide corresponding to the N-terminus of the Rat Leptin Receptor/CD295
Conjugation	Unconjugated
Preparation	Produced in rabbits immunized with a synthetic peptide corresponding to the N-terminus of the Rat Leptin Receptor/CD295, and purified by antigen affinity chromatography.
Preparation and Storage	This antibody can be stored at 2-8 degree C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20 degree C to -80 degree C. Preservative-Free. Avoid repeated freeze-thaw cycles.



IHC (Immunohistochemistry)
Immunochemical staining of rat Lepr in rat kidney with rabbit polyclonal antibody (1:5000, formalin-fixed paraffin embedded sections).



WB (Western Blot)
Anti-Lepr rabbit polyclonal antibody at 1:500 dilutionLane A: Rat brain tissue lysateLysates/proteins at 30ug per lane.SecondaryGoat Anti-Rabbit IgG (H+L)/HRP at 1/10000 dilution.Developed using the ECL technique.Performed under reducing conditions.Predicted band size:132 kDaObserved band size:130 kDa

ADDITIONAL INFORMATION

Related Product Information for anti-LEPR antibody	Leptin Receptor or CD295 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. Leptin Receptor/CD295 is transmembrane catalytic receptors found on NPY/AgRP and alpha-MSH/CART neurons in hypothalamic nuclei. Leptin receptors (Ob-Rs) are coded for by one human gene that produces six different isoforms; Ob-Ra-Ob-Rf. Ob-Rs exist as constitutive dimers at physiological expression levels. Only the Ob-Rb isoform can transduce intracellular signals and does so through activation of the JAK2/STAT3, PI 3-K, and MAPK signaling cascades. Activation of Ob-Rs mediates transcriptional regulation of the hypothalamic melanocortin pathway and downregulates endocannabinoid expression. Leptin acts via leptin receptors. Leptin resistance has been proposed as a pathophysiological mechanism of obesity. In obese individuals, Ob-Ra (which is involved in the active transport of leptin across the blood-brain barrier) expression is downregulated and the individual may be unresponsive to leptin signals. Ob-R antagonists are of great interest in the development of pharmacological treatments for obesity. Mutations in the Leptin Receptor/CD295 have been associated with obesity and pituitary dysfunction.
References	Heshka JT, et al. (2001) A role for dietary fat in leptin receptor, OB-Rb, function. Life Sci. 69 (9): 987-1003.Chen H, et al (1996) Evidence that the diabetes gene encodes the leptin receptor: identification of a mutation in the leptin receptor gene in db/db mice. Cell. 84 (3): 491-5.Bjrbaek C, et al. (1998) Divergent signaling capacities of the long and short isoforms of the leptin receptor. J Biol Chem. 272 (51): 32686-95.

NCBI AND UNIPROT INFORMATION

NCBI GI #	6981150
NCBI GeneID	24536
NCBI Accession #	NP_036728.1
NCBI GenBank Nucleotide #	NM_012596.1
UniProt Accession #	Q62959; O35772; O35773; O54805; P70493; P70494; P70495; P97589; Q62960; Q63007; Q63385; Q63386
Molecular Weight	101,395 Da
NCBI Official Full Name	leptin receptor
NCBI Official Synonym Full Names	leptin receptor
NCBI Official Symbol	Lepr
NCBI Official Synonym Symbols	Fa

NCBI Protein Information	leptin receptor
UniProt Protein Name	Leptin receptor
UniProt Gene Name	Lepr
UniProt Synonym Gene Names	Fa; Obr; LEP-R; OB-R

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://www.aaabiotech.com/polyclonal/leptin-receptor-antibody-immunohistochemistry-western-blot-elisa/254679>