

Rabbit anti-Mouse Leptin Receptor Polyclonal Antibody

Anti-Leptin Receptor Antibody, Rabbit Polyclonal

CATALOG # AAA258826	HOST Rabbit	REACTIVITY Mouse	APPLICATIONS Immunohistochemistry
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PRODUCT SYNONYMS

Leptin Receptor; Polyclonal Antibody; Anti-Leptin Receptor Antibody; Rabbit Polyclonal; leptin receptor; Anti-db Antibody; Anti-diabetes Antibody; Anti-Leprb Antibody; Anti-LEPROT Antibody; Anti-Modb1 Antibody; Anti-OB-RGRP Antibody; Anti-obese-like Antibody; Anti-obl Antibody; Anti-Obr Antibody; anti-Leptin Receptor antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Mouse
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Mouse Leptin Receptor
Purity/Purification	Protein A & Antigen Affinity
Form/Format	Liquid; 0.2um filtered solution in PBS
Applicable Applications for anti-Leptin Receptor antibody	IHC (Immunohistochemistry)
Immunogen	A synthetic peptide corresponding to the center region of the Mouse Leptin Receptor
Preparation	Produced in rabbits immunized with a synthetic peptide corresponding to the center region of the Mouse Leptin Receptor, 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.

IMAGES



IHC (Immunohistochemistry)

Immunochemical staining of Mouse LEPR in Mouse liver with rabbit polyclonal antibody at 1:100 dilution, formalin-fixed paraffin embedded sections.



IHC (Immunohistochemistry)

Immunochemical staining of Mouse LEPR in Mouse heart with rabbit polyclonal antibody at 1:100 dilution, formalin-fixed paraffin embedded sections.

ADDITIONAL INFORMATION

Related Product Information for anti-Leptin Receptor 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.

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/polyclonal/leptin-receptor-antibody-immunohistochemistry-elisa/258826>