ARG63966
anti-Leptin Receptor antibody

Package: 100 µg
Store at: -20°C

Summary

Product Description	Goat Polyclonal antibody recognizes Leptin Receptor
Tested Reactivity	Hu, Ms, Rat
Predict Reactivity	Dog
Tested Application	IHC-P, WB
Specificity	This antibody is expected to recognise all three reported isoforms (NP_002294.2; NP_001003679.1; NP_001003680.1).
Host	Goat
Clonality	Polyclonal
Isotype	IgG
Target Name	Leptin Receptor
Species	Human
Immunogen	C-TQDDIEKHQSDAG
Conjugation	Un-conjugated
Alternate Names	LEPRD; CD antigen CD295; CD295; Leptin receptor; LEP-R; HuB219; OB-R; OBR; OB receptor

Application Instructions

Application table

Application	Dilution
IHC-P	4 µg/ml
WB	0.1 - 1 µg/ml

Application Note

WB: Recommend incubate at RT for 1h.
IHC-P: Antigen Retrieval: Steam tissue section in Citrate buffer (pH 6.0).
* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

Properties

Form	Liquid
Purification	Purified from goat serum by antigen affinity chromatography.
Buffer	Tris saline (pH 7.3), 0.02% Sodium azide and 0.5% BSA.
Preservative	0.02% Sodium azide
Stabilizer	0.5% BSA
Concentration	0.5 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated

freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.

Note

For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Background

The protein encoded by this gene 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. Mutations in this gene have been associated with obesity and pituitary dysfunction. Alternatively spliced transcript variants encoding different isoforms have been described for this gene. It is noteworthy that this gene and LEPROT gene (GeneID:54741) share the same promoter and the first 2 exons, however, encode distinct proteins (PMID:9207021).[provided by RefSeq, Nov 2010]

Highlight

Related news:
Studying obesity and appetite control by quantifying orexigenic and anorexigenic hormones;

Research Area

Cancer antibody; Cell Biology and Cellular Response antibody; Metabolism antibody; Signaling Transduction antibody

Calculated Mw

132 kDa

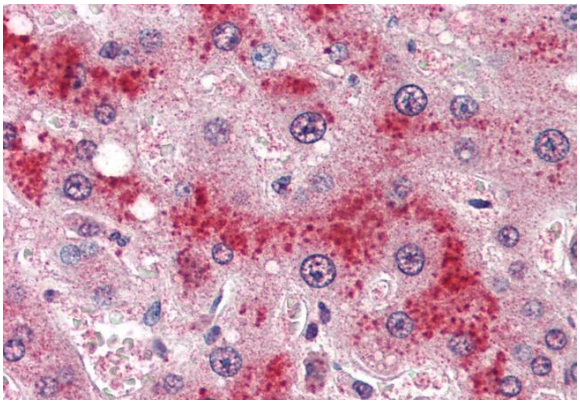
PTM

On ligand binding, phosphorylated on two conserved C-terminal tyrosine residues (isoform B only) by JAK2. Tyr-986 is required for complete binding and activation of PTPN11, ERK/FOS activation,for interaction with SOCS3 and SOCS3 mediated inhibition of leptin signaling. Phosphorylation on Tyr-1141 is required for STAT3 binding/activation. Phosphorylation of Tyr-1079 has a more accessory role.

Images

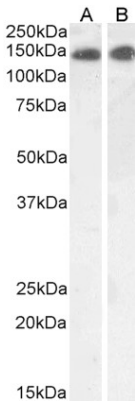
ARG63966 anti-Leptin Receptor antibody WB image

Western Blot: Human Brain lysate (35 µg protein in RIPA buffer) stained with ARG63966 anti-Leptin Receptor antibody at 1 µg/ml dilution.



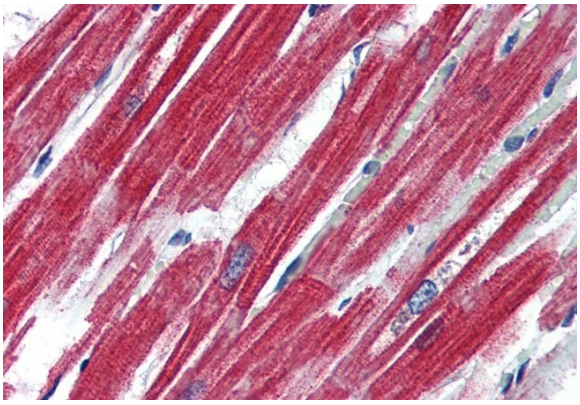
ARG63966 anti-Leptin Receptor antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Human liver tissue. Antigen Retrieval: Steam tissue section in Citrate buffer (pH 6.0). The tissue section was stained with ARG63966 anti-Leptin Receptor antibody at 4 µg/ml dilution followed by AP-staining.



ARG63966 anti-Leptin Receptor antibody WB image

Western blot: 35 µg of Mouse brain (A) and Rat brain (B) lysates (in RIPA buffer) stained with ARG63966 anti-Leptin Receptor antibody at 0.1 µg/ml dilution and incubated at RT for 1 hour.



ARG63966 anti-Leptin Receptor antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Human heart tissue. Antigen Retrieval: Steam tissue section in Citrate buffer (pH 6.0). The tissue section was stained with ARG63966 anti-Leptin Receptor antibody at 4 µg/ml dilution followed by AP-staining.