

Mouse Leptin R Antibody

Biotin

Polyclonal Antibody

Product Information

Product No.: L230
RRID: AB_2831160
Storage: -20°C to -70°C

Product Description

Specificity:

Goat Anti-Mouse Leptin R recognizes Mouse Leptin R. This antigen affinity purified polyclonal antibody was purified using a proprietary chromatographic technique that includes covalently immobilizing the antigen proteins or peptides to agarose based beads. This purification method enhances specificity, reduces nonspecific binding of extraneous IgG and provides you with the most reliable reagent available for your early discovery research.

Background:

Leptin inhibits food intake and stimulates energy expenditure. Leptin also has thermogenic actions and regulates enzymes of fatty acid oxidation. Severe hereditary obesity in rodents and humans is caused by defects in leptin production. In addition to its critical role in the physiologic regulation of body weight leptin has a variety of other physiologic and pathologic functions resembling those of cytokines. These functions include the regulation of hematopoiesis, angiogenesis, wound healing, inflammation, and immune responses. Leptin provides the key afferent signal from fat cells in the feedback system that controls body fat stores.

Known Reactivity Species:

Mouse

Format:

Biotin

Immunogen:

Purified Recombinant Mouse Leptin R (Accession # Q3US58)

Formulation

This biotinylated antigen affinity purified polyclonal antibody has been 0.2 µm filtered and lyophilized from modified Dulbecco's phosphate buffered saline (1X PBS) pH 7.2 – 7.4 containing 50 µg of bovine serum albumin per µg of antibody with no calcium, magnesium, or preservatives present.

Storage and Stability

The lyophilized, biotinylated antigen affinity purified polyclonal antibody can be stored desiccated at -20°C to -70°C for up to twelve months from date of receipt. The reconstituted biotin conjugate can be stored for at least four weeks at 2-8°C. For long-term storage of the reconstituted conjugate, aseptically aliquot into working volumes and store at -20°C to -70°C in a manual defrost freezer. No detectable loss of activity was observed after six months.

Avoid Repeated Freeze Thaw Cycles.

Applications

Applications and Recommended Usage (Quality Tested By Leinco):

Flow Cytometry: It is recommended to use the indirect method for signal enhancement when enumerating cells expressing Leptin R. A suggested method would be to stain cells expressing Leptin R with 2.5 µg per 1×10^6 cells in a total staining volume of 100 µl followed by PN:A104.

Western Blotting: To detect Mouse Leptin R this biotin conjugate can be used at a concentration of 0.1 - 0.2 µg/ml. This biotin conjugate should be used in conjunction with compatible second-step reagents such as PN:A106 and a chromogenic substrate such as PN:T343. The detection limit for Mouse Leptin R is 20 ng/lane under either reducing or non-reducing conditions. The sensitivity of detection may increase up to 50 fold when a chemiluminescent substrate is used. A suitable Western blotting control is PN:L197.

ELISA Sandwich Assay: This antibody can be used as the detection antibody in a sandwich ELISA at a concentration of approximately 0.1-0.4 µg/mL when used in conjunction with PN:L216 as the capture antibody and an optimal second step reagent such as PN:A106 for the detection of Mouse Leptin R.

Country of Origin

USA