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+1 484.791.3823

Datasheet for 210-401-320

Leptin Antibody

Overview

Description:	Anti-Leptin (RABBIT) Antibody - 210-401-320
Item No.:	210-401-320
Size:	1 mg
Applications:	ELISA, WB
Reactivity:	Human, Mouse
Host Species:	Rabbit

Product Details

Background:	Anti-Leptin antibody detects leptin protein. Leptin may function as part of a signaling pathway that acts to regulate the size of the body fat depot. An increase in the level of LEP may act directly or indirectly on the CNS to inhibit food intake and/or regulate energy expenditure as part of a homeostatic mechanism to maintain constancy of the adipose mass. Obesity associated leptin is the product of the OB gene and has been identified with Type II diabetes. Anti-leptin Antibody is ideal for investigators involved in Cell Signaling, Obesity research, aging research and Signal Transduction research.
Synonyms:	rabbit anti-leptin antibody, LEP antibody, Leptin Murine Obesity Homolog antibody, Leptin Precursor Obesity Factor antibody, OB antibody, Obese Protein antibody
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	Lep
Reactivity:	Human, Mouse
Immunogen Type:	Recombinant Protein
Immunogen:	Anti-Leptin antibody was prepared by repeated immunizations with recombinant mouse leptin 16,000 MW produced in E. coli.

Purity/Specificity:	Anti-Leptin antibody is an IgG fraction antibody purified from monospecific antiserum by a multi-step process which includes delipidation, salt fractionation and ion exchange chromatography followed by extensive dialysis against the buffer stated above. The antibody will recognize leptin from mouse and human. Reactivity with leptin from other sources is unknown.
Relevant Links:	• NCBI - P41160.1 • UniProtKB - P41160 • GeneID - 16846

Application Details

Tested Applications:	ELISA, WB
Application Note:	This IgG fraction of anti-Mouse Leptin was tested for use in ELISA and immunoblotting. Reactivity in other immunoassays is unknown. The antibody will recognize recombinant and native 16 kDa leptin from mouse and human.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	1:5,000 - 1:20,000
IHC:	User Optimized
WB:	1:500 - 1:2,000

Formulation

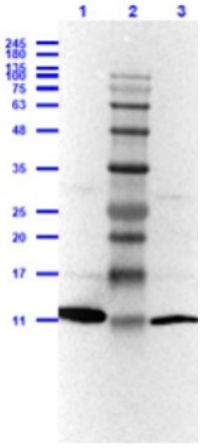
Physical State:	Liquid (sterile filtered)
Concentration:	1.0 mg/mL by UV absorbance at 280 nm
Buffer:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Preservative:	0.01% (w/v) Sodium Azide
Stabilizer:	None

Shipping & Handling

Shipping Condition:	Dry Ice

Storage Condition:	Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.
Expiration:	Expiration date is one (1) year from date of receipt.

Images



Western Blot
Western Blot Results of Rabbit Anti-Leptin Antibody.
Lane 1: Rec Ms Leptin Reduced [0.03µg].
Lane 2: Opal Prestained Molecular Weight Marker (p/n MB-210-0500).
Lane 3: Rec Ms Leptin Non-Reduced [0.03µg].
Primary Antibody: Rb Anti-Leptin at 1:1000 overnight at 2-8°C.
Secondary Antibody: Gt Anti-Rabbit IgG [H&L] HRP (p/n 611-1302) at 1:40,000 for 30 mins at RT.
Blocking: Universal BlockOut Buffer (p/n MB-073) for 1hr at RT.
Predicted MW: ~16kDa.
Exposure: 5sec.

References

- Zhang X et al. Coix seed oil improves the inflammatory response in mice with phlegm-dampness collagen-induced arthritis by inhibiting the differentiation of Th17 cells. *J Ethnopharmacol.* (2026)

Disclaimer

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