

Datasheet: 5633-1009G

Description:	SHEEP ANTI LEPTIN
Specificity:	LEPTIN
Format:	Purified
Product Type:	Polyclonal Antibody
Isotype:	Polyclonal IgG
Quantity:	1 ml

Product Details

Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit www.bio-rad-antibodies.com/protocols.

	Yes	No	Not Determined	Suggested Dilution
ELISA	▪			1/10,000 - 1/50,000

Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the product for use in their own system using appropriate negative/positive controls.

Species Cross Reactivity

Reacts with: Human, Mouse, Rat
N.B. Antibody reactivity and working conditions may vary between species. Cross reactivity is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information.

Product Form

Purified IgG - liquid

Antiserum Preparation Antisera to leptin were raised by repeated immunisations of sheep with highly purified antigen. Purified IgG prepared by affinity chromatography on Protein G.

Buffer Solution

Phosphate buffered saline

Preservative Stabilisers

0.09% Sodium Azide (NaN₃)

Approx. Protein Concentrations

IgG concentration 5.0mg/ml

Immunogen

HMW conjugate coupled to leptin peptide amino acids 57-70.

External Database Links	UniProt: P41159 Related reagents Entrez Gene: 3952 LEP Related reagents
Synonyms	OB, OBS
RRID	AB_1055768
Specificity	<p>Sheep anti Human Leptin antibody recognises leptin, a ~16 kDa secreted protein hormone encoded by the OB gene, which plays a key role in the regulation of metabolism, body weight and reproduction and is expressed primarily by white adipocytes, and to a lesser extent by stomach endothelium and the placenta.</p> <p>Regulation of food intake and energy expenditure by leptin is thought to predominantly occur in the hypothalamus of the brain, where leptin binds with high affinity to neuronal leptin receptors (OB-R), inhibiting the action of the feeding stimulants neuropeptide Y (NPY) and agouti-related peptide (AgRP), or promoting the effects of the appetite regulator α-melanocyte-stimulating hormone (α-MSH). Leptin also acts as a direct stimulator of fatty acid oxidation in the mitochondria of liver and skeletal muscle cells, and influences glucose and fat metabolism.</p> <p>The expression of leptin in relation to metabolic status is influenced by hormonal and metabolite control: stimulators of leptin include insulin and cortisol, whilst cAMP, thiazolidinediones and beta-adrenergic receptor agonists, reduce leptin expression.</p>
Further Reading	<ol style="list-style-type: none"> 1. Mantzoros, C.S. (1999) The role of leptin in human obesity and disease: a review of current evidence. Ann Intern Med. 130 (8): 671-80. 2. Houseknecht, K.L. <i>et al.</i> (1998) The biology of leptin: a review. J Anim Sci. 76 (5): 1405-20.
Storage	<p>This product is shipped at ambient temperature. It is recommended to aliquot and store at -20°C on receipt. When thawed, aliquot the sample as needed. Keep aliquots at 2-8°C for short term use (up to 4 weeks) and store the remaining aliquots at -20°C.</p> <p>Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended.</p>
Guarantee	12 months from date of despatch
Health And Safety Information	Material Safety Datasheet documentation #10040 available at: 10040: https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf
Regulatory	For research purposes only

Related Products

Recommended Secondary Antibodies

Donkey Anti Sheep IgG (STAR88...) [DyLight®488, HRP](#)

Rabbit Anti Sheep IgG (H/L) (5184-2304...) [Biotin](#)

North & South Tel: +1 800 265 7376

America Fax: +1 919 878 3751

Email: antibody_sales_us@bio-rad.com

Worldwide

Tel: +44 (0)1865 852 700

Fax: +44 (0)1865 852 739

Email: antibody_sales_uk@bio-rad.com

Europe

Tel: +49 (0) 89 8090 95 21

Fax: +49 (0) 89 8090 95 50

Email: antibody_sales_de@bio-rad.com

To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets
'M381923:210512'

Printed on 19 Feb 2022

© 2022 Bio-Rad Laboratories Inc | [Legal](#) | [Imprint](#)