

Datasheet: AHP1616

BATCH NUMBER 154744

Description:	RABBIT ANTI HUMAN LEPTIN
Specificity:	LEPTIN
Other names:	OBESITY FACTOR
Format:	Purified
Product Type:	Polyclonal Antibody
Isotype:	Polyclonal IgG
Quantity:	0.1 mg

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
Flow Cytometry			▪	
Immunohistology - Frozen			▪	
Immunohistology - Paraffin (1)	▪			0.5ug/ml
ELISA	▪			0.5 - 2.0ug/ml
Immunoprecipitation			▪	
Western Blotting	▪			0.1 - 0.2ug/ml

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.

(1) This product requires antigen retrieval using heat treatment prior to staining of paraffin sections. Sodium citrate buffer pH 6.0 is recommended for this purpose.

Target Species	Human
Product Form	Purified IgG - lyophilised
Reconstitution	<p>Reconstitute with 0.1ml distilled water</p> <p>Care should be taken during reconstitution as the protein may appear as a film at the bottom of the vial. Bio-Rad recommend that the vial is gently mixed after reconstitution. For long term storage the addition of 0.09% sodium azide is recommended.</p>

Antiserum Preparation Antiserum to human leptin was raised by repeated immunisation of rabbits with highly purified antigen. Purified IgG was prepared from whole serum by affinity chromatography.

Buffer Solution Phosphate buffered saline

Preservative Stabilisers None present

Carrier Free Yes

Approx. Protein Concentrations IgG concentration 1.0 mg/ml after reconstitution

Immunogen [Recombinant human leptin](#) (PHP198)

External Database Links

UniProt:

[P41159](#) [Related reagents](#)

Entrez Gene:

[3952](#) LEP [Related reagents](#)

Synonyms OB, OBS

RRID AB_2135946

Specificity **Rabbit anti Human Leptin antibody** recognizes human leptin, a ~16 kDa major adipose-derived hormone and member of the leptin family, which plays a key role in appetite control and the regulation of energy expenditure.

Secreted leptin associates with proteins within the bloodstream and is transported to the brain, where it inhibits or up-regulates the activity of neuropeptides such as neuropeptide Y (NPY) and alpha-melanocyte-stimulating hormone respectively. Leptin is a recognised marker of obesity, with a correlation between circulating levels of leptin and body fat mass, and defects in leptin production result in severe obesity. Regulators of leptin expression include insulin, cortisol, cAMP and thiazolidinediones.

ELISA This purified human leptin antibody may be used in an ELISA with [recombinant human leptin](#) (PHP198) as the standard.

Western Blotting This purified human leptin antibody may be used in Western Blotting applications under either reducing or non-reducing conditions with [recombinant human leptin](#) (PHP198) as the positive control.

Further Reading 1. Paracchini, V. *et al.* (2005) Genetics of leptin and obesity: a HuGE review. [Am J Epidemiol. 162 \(2\): 101-14.](#)

Storage Prior to reconstitution store at -20°C.
After reconstitution store at -20°C.

This product should be stored undiluted. Storage in frost-free freezers is not recommended. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

Guarantee	6 months from date of despatch
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Health And Safety Information	Material Safety Datasheet documentation #10162 available at: https://www.bio-rad-antibodies.com/SDS/AHP1616 10162
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Regulatory	For research purposes only
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Related Products

Recommended Secondary Antibodies

- Sheep Anti Rabbit IgG (STAR34...) [FITC](#)
Goat Anti Rabbit IgG (H/L) (STAR124...) [HRP](#)
Sheep Anti Rabbit IgG (STAR35...) [RPE](#)
Goat Anti Rabbit IgG (Fc) (STAR121...) [Biotin](#), [FITC](#), [HRP](#)

Recommended Useful Reagents

- [ANTIGEN RETRIEVAL BUFFER, pH8.0 \(BUF025A\)](#)
[TidyBlot WESTERN BLOT DETECTION REAGENT:HRP \(STAR209P\)](#)

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To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets
'M372927:200730'

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