

# Datasheet: AHP1616

**BATCH NUMBER 153848**

<b>Description:</b>	RABBIT ANTI HUMAN LEPTIN
<b>Specificity:</b>	LEPTIN
<b>Format:</b>	Purified
<b>Product Type:</b>	Polyclonal Antibody
<b>Isotype:</b>	Polyclonal IgG
<b>Quantity:</b>	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](http://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.**

<b>Target Species</b>	Human
<b>Product Form</b>	Purified IgG - lyophilised
<b>Reconstitution</b>	Reconstitute with 0.1ml distilled water 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.

**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.

<b>Buffer Solution</b>	Phosphate buffered saline
<b>Preservative Stabilisers</b>	None present
<b>Carrier Free</b>	Yes
<b>Approx. Protein Concentrations</b>	IgG concentration 1.0 mg/ml after reconstitution
<b>Immunogen</b>	<a href="#">Recombinant human leptin</a> (PHP198)
<b>External Database Links</b>	<p><b>UniProt:</b>  <a href="#">P41159</a>   <a href="#">Related reagents</a></p> <p><b>Entrez Gene:</b>  <a href="#">3952</a>   LEP   <a href="#">Related reagents</a></p>
<b>Synonyms</b>	OB, OBS
<b>RRID</b>	AB_2135946
<b>Specificity</b>	<p><b>Rabbit anti Human Leptin antibody</b> 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.</p> <p>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.</p>
<b>ELISA</b>	This purified human leptin antibody may be used in an ELISA with <a href="#">recombinant human leptin</a> (PHP198) as the standard.
<b>Western Blotting</b>	This purified human leptin antibody may be used in Western Blotting applications under either reducing or non-reducing conditions with <a href="#">recombinant human leptin</a> (PHP198) as the positive control.
<b>Further Reading</b>	1. Paracchini, V. <i>et al.</i> (2005) Genetics of leptin and obesity: a HuGE review. <a href="#">Am J Epidemiol. 162 (2): 101-14.</a>
<b>Storage</b>	<p>Prior to reconstitution store at -20°C.  After reconstitution store at -20°C.</p> <p>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.</p>

Should this product contain a precipitate we recommend microcentrifugation before use.

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<b>Guarantee</b>	Guaranteed for 3 months from the date of reconstitution or until the date of expiry, whichever comes first. Please see label for expiry date.
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<b>Health And Safety Information</b>	Material Safety Datasheet documentation #10162 available at: <a href="https://www.bio-rad-antibodies.com/SDS/AHP1616">https://www.bio-rad-antibodies.com/SDS/AHP1616</a> 10162
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<b>Regulatory</b>	For research purposes only
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## Related Products

### Recommended Secondary Antibodies

Sheep Anti Rabbit IgG (STAR34...) [FITC](#)  
Goat Anti Rabbit IgG (Fc) (STAR121...) [Biotin](#), [FITC](#), [HRP](#)  
Sheep Anti Rabbit IgG (STAR35...) [RPE](#)  
Goat Anti Rabbit IgG (H/L) (STAR124...) [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](https://bio-rad-antibodies.com/datasheets)  
'M372495:200706'

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