

## Rabbit LEPTIN Polyclonal Antibody | anti-LEPTIN antibody

RABBIT ANTI HUMAN LEPTIN

|                              |                       |                                                                  |
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| CATALOG #<br><b>AAA50035</b> | HOST<br><b>Rabbit</b> | APPLICATIONS<br><b>Western Blot, Immunohistochemistry, ELISA</b> |
|------------------------------|-----------------------|------------------------------------------------------------------|

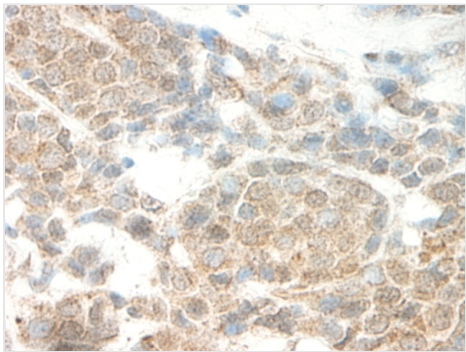
### PRODUCT SYNONYMS

LEPTIN; Polyclonal Antibody; RABBIT ANTI HUMAN LEPTIN; anti-LEPTIN antibody

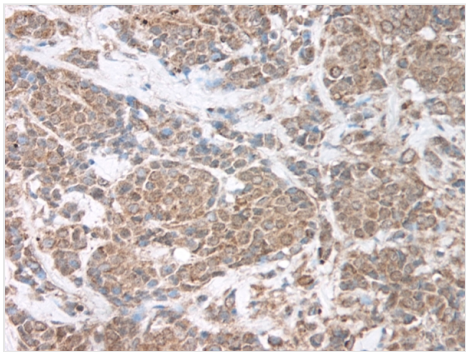
### PRODUCT SPECIFICATIONS

|                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
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| Host                                             | Rabbit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Clonality                                        | Polyclonal                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Isotype                                          | IgG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Specificity                                      | This product recognises human leptin, a 16KDa 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. |
| Form/Format                                      | Purified<br>Purified IgG - lyophilised                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Concentration                                    | IgG concentration 1.0mg/ml (varies by lot)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Sequence Length                                  | 167                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Applicable Applications for anti-LEPTIN antibody | WB (Western Blot), IHC (Immunohistochemistry), ELISA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Reconstitution                                   | 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. AAA Biotech recommends that the vial is gently mixed after reconstitution. For long term storage the addition of 0.09% sodium azide is recommended.                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Immunogen                                        | Recombinant human leptin<br>Buffer Solution                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| 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.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Target Species                                   | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Preparation and Storage                          | Prior to reconstitution store at 4 degree C. After reconstitution store at -20 degree C. Storage in frost-free freezers is not recommended. This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use. Shelf Life: 12 months from date of reconstitution.                                                                                                                                                                                                                                                                                                                          |

IMAGES



**Application Data**  
Formalin fixed, paraffin embedded human breast invasive ductal carcimoma stained with Rabbit anti Human leptin (AAA50035) following heat mediated antigen retrieval using sodium citrate buffer (pH6.0)



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Formalin fixed, paraffin embedded human breast invasive ductal carcimoma stained with Rabbit anti Human leptin (AAA50035) following heat mediated antigen retrieval using sodium citrate buffer (pH6.0)

ADDITIONAL INFORMATION

|                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|-------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Related Product Information for anti-LEPTIN antibody</b> | This product recognises human leptin, a 16KDa 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. |
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NCBI AND UNIPROT INFORMATION

|                                  |                                                                                                                                   |
|----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|
| NCBI GI #                        | 4557715                                                                                                                           |
| NCBI GeneID                      | 3952                                                                                                                              |
| NCBI Accession #                 | NP_000221.1                                                                                                                       |
| NCBI GenBank Nucleotide #        | NM_000230.2                                                                                                                       |
| UniProt Accession #              | P41159; O15158; Q56A88                                                                                                            |
| Molecular Weight                 | 18,641 Da                                                                                                                         |
| NCBI Official Full Name          | leptin                                                                                                                            |
| NCBI Official Synonym Full Names | leptin                                                                                                                            |
| NCBI Official Symbol             | LEP                                                                                                                               |
| NCBI Official Synonym Symbols    | OB; OBS; LEPD                                                                                                                     |
| NCBI Protein Information         | leptin; leptin (murine obesity homolog); leptin (obesity homolog, mouse); obese protein; obese, mouse, homolog of; obesity factor |
| UniProt Protein Name             | Leptin                                                                                                                            |
| UniProt Gene Name                | LEP                                                                                                                               |
| UniProt Synonym Gene Names       | OB; OBS                                                                                                                           |
| UniProt Entry Name               | LEP_HUMAN                                                                                                                         |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

