

## Rabbit LNPEP Polyclonal Antibody | anti-LNPEP antibody

Anti-LNPEP Antibody Picoband

|                               |                       |                                        |                                                                  |
|-------------------------------|-----------------------|----------------------------------------|------------------------------------------------------------------|
| CATALOG #<br><b>AAA126410</b> | HOST<br><b>Rabbit</b> | REACTIVITY<br><b>Human, Mouse, Rat</b> | APPLICATIONS<br><b>ELISA, Immunohistochemistry, Western Blot</b> |
|-------------------------------|-----------------------|----------------------------------------|------------------------------------------------------------------|

### PRODUCT SYNONYMS

LNPEP; Polyclonal Antibody; Anti-LNPEP Antibody Picoband; anti-LNPEP antibody

### PRODUCT SPECIFICATIONS

|                                                 |                                                                                                                                                                                                                              |
|-------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                            | Rabbit                                                                                                                                                                                                                       |
| Reactivity                                      | Human, Mouse, Rat                                                                                                                                                                                                            |
| Clonality                                       | Polyclonal                                                                                                                                                                                                                   |
| Isotype                                         | Rabbit IgG                                                                                                                                                                                                                   |
| Purity/Purification                             | Immunogen affinity purified.                                                                                                                                                                                                 |
| Form/Format                                     | Lyophilized<br>Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na <sub>2</sub> HPO <sub>4</sub> .                                                                                                                     |
| Concentration                                   | Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml. (varies by lot)                                                                                                                                    |
| Applicable Applications for anti-LNPEP antibody | ELISA, IHC (Immunohistochemistry), WB (Western Blot)                                                                                                                                                                         |
| Reconstitution                                  | Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.                                                                                                                                                    |
| Immunogen                                       | E Coli-derived human LNPEP recombinant protein (Position: E17-T994).                                                                                                                                                         |
| Preparation and Storage                         | Store at -20 degree C for one year from date of receipt. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for six months. Avoid repeated freezing and thawing. |

### IMAGES



#### IHC (Immunohistochemistry)

Figure 4. IHC analysis of LNPEP using anti-LNPEP antibody (AAA126410).LNPEP was detected in a paraffin-embedded section of rat brain tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2 ug/ml rabbit anti-LNPEP Antibody (AAA126410) overnight at 4 degree C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit with DAB as the chromogen.



#### IHC (Immunohistochemisry)

Figure 3. IHC analysis of LNPEP using anti-LNPEP antibody (AAA126410).LNPEP was detected in a paraffin-embedded section of mouse brain tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2 ug/ml rabbit anti-LNPEP Antibody (AAA126410) overnight at 4 degree C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit with DAB as the chromogen.



#### IHC (Immunohistochemistry)

Figure 2. IHC analysis of LNPEP using anti-LNPEP antibody (AAA126410).LNPEP was detected in a paraffin-embedded section of human placenta tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2 ug/ml rabbit anti-LNPEP Antibody (AAA126410) overnight at 4 degree C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit with DAB as the chromogen.



#### WB (Western Blot)

Figure 1. Western blot analysis of LNPEP using anti-LNPEP antibody (AAA126410).Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel)/90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions.Lane 1: human Hela whole cell lysates,Lane 2: human 293T whole cell lysates,Lane 3: human Daudi whole cell lysates,Lane 4: human T-47D whole cell lysates,Lane 5: human RT4 whole cell lysates.After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-LNPEP antigen affinity purified polyclonal antibody (#AAA126410) at 0.5 ug/mL overnight at 4 degree C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit with Tanon 5200 system. A specific band was detected for LNPEP at approximately 117 kDa. The expected band size for LNPEP is at 117 kDa.

### ADDITIONAL INFORMATION

|                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|-----------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for anti-LNPEP antibody | Leucyl/cystinyl aminopeptidase, also known as cystinyl aminopeptidase (CAP), insulin-regulated aminopeptidase (IRAP), human placental leucine aminopeptidase (PLAP), oxytocinase, and vasopressinase, is an enzyme of the aminopeptidase group that in humans is encoded by the LNPEP gene. This gene encodes a zinc-dependent aminopeptidase that cleaves vasopressin, oxytocin, lys-bradykinin, met-enkephalin, dynorphin A and other peptide hormones. The protein can be secreted in maternal serum, reside in intracellular vesicles with the insulin-responsive glucose transporter GLUT4, or form a type II integral membrane glycoprotein. The protein catalyzes the final step in the conversion of angiotensinogen to angiotensin IV (AT4) and is also a receptor for AT4. Alternative splicing results in multiple transcript variants encoding different isoforms. |
| Product Categories/Family for anti-LNPEP antibody   | Primary Antibodies, Rabbit Polyclonal Antibodies                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |

### NCBI AND UNIPROT INFORMATION

|                                  |                                                                                                                                                                                                                                                                |
|----------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NCBI GI #                        | 61742777                                                                                                                                                                                                                                                       |
| NCBI GeneID                      | 4012                                                                                                                                                                                                                                                           |
| NCBI Accession #                 | NP_005566.2                                                                                                                                                                                                                                                    |
| NCBI GenBank Nucleotide #        | NM_005575.2                                                                                                                                                                                                                                                    |
| UniProt Accession #              | Q9UIQ6; O00769; Q15145; Q59H76; Q9TNQ2; Q9TNQ3; Q9UIQ7                                                                                                                                                                                                         |
| Molecular Weight                 | 117,349 Da                                                                                                                                                                                                                                                     |
| NCBI Official Full Name          | leucyl-cystinyl aminopeptidase isoform 1                                                                                                                                                                                                                       |
| NCBI Official Synonym Full Names | leucyl/cystinyl aminopeptidase                                                                                                                                                                                                                                 |
| NCBI Official Symbol             | LNPEP                                                                                                                                                                                                                                                          |
| NCBI Official Synonym Symbols    | CAP; IRAP; PLAP; P-LAP                                                                                                                                                                                                                                         |
| NCBI Protein Information         | leucyl-cystinyl aminopeptidase; otase; oxytocinase; vasopressinase; AT (4) receptor; angiotensin IV receptor; insulin-regulated aminopeptidase; placental leucine aminopeptidase; insulin-responsive aminopeptidase; insulin-regulated membrane aminopeptidase |
| UniProt Protein Name             | Leucyl-cystinyl aminopeptidase                                                                                                                                                                                                                                 |
| UniProt Gene Name                | LNPEP                                                                                                                                                                                                                                                          |
| UniProt Synonym Gene Names       | OTASE; Cystinyl aminopeptidase; IRAP; OTase; P-LAP                                                                                                                                                                                                             |
| UniProt Entry Name               | LCAP_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.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | [contact@aaabiotech.com](mailto:contact@aaabiotech.com)

Online datasheet: <https://stage.aaabiotech.com/polyclonal/Inpep-antibody-immunohistochemistry-western-blot-elisa/126410>