abcam

Product datasheet

Anti-LNPEP antibody - N-terminal ab190255

2 Images

Overview

Product name	Anti-LNPEP antibody - N-terminal
Description	Rabbit polyclonal to LNPEP - N-terminal
Host species	Rabbit
Tested applications	**Suitable for:** IP, WB
Species reactivity	**Reacts with:** Human **Predicted to work with:** Horse, Pig, Chimpanzee, Rhesus monkey, Common marmoset
Immunogen	Synthetic peptide within Human LNPEP aa 1-100 (N terminal). The exact immunogen sequence used to generate this antibody is proprietary information. If additional detail on the immunogen is needed to determine the suitability of the antibody for your needs, please **contact** our Scientific Support team to discuss your requirements. NP_005566.2. Database link: **Q9UIQ6** Run BLAST with Run BLAST with
Positive control	HeLa, 293T and Jurkat whole cell lysates.
General notes	The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing. If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
Storage buffer	pH: 7 Preservative: 0.09% Sodium azide Constituent: 99% Tris citrate/phosphate pH 7-8

Purity	Immunogen affinity purified
Purification notes	ab190255 was affinity purified using an epitope specific to LNPEP immobilized on solid support.
Clonality	Polyclonal
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab190255 in the following tested applications.

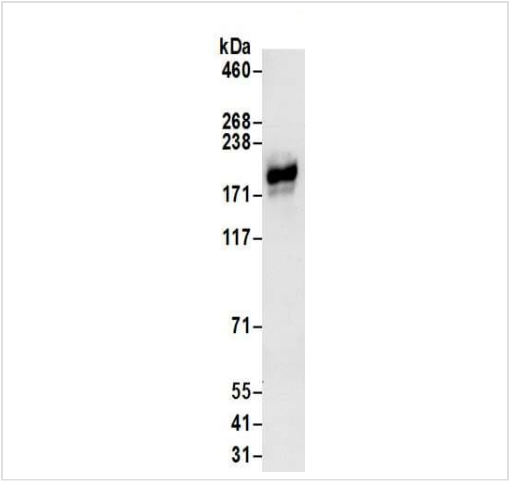
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
IP		Use at 2-10 µg/mg of lysate.
WB		1/2000 - 1/10000. Predicted molecular weight: 117 kDa.

Target

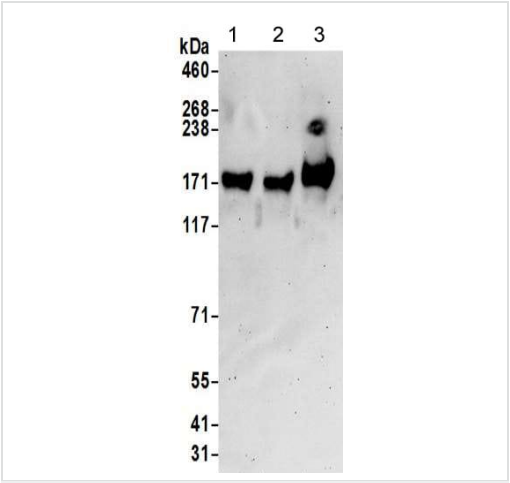
Function	Release of an N-terminal amino acid, cleaves before cysteine, leucine as well as other amino acids. Degrades peptide hormones such as oxytocin, vasopressin and angiotensin III, and plays a role in maintaining homeostasis during pregnancy. May be involved in the inactivation of neuronal peptides in the brain. Cleaves Met-enkephalin and dynorphin. Binds angiotensin IV and may be the angiotensin IV receptor in the brain.
Tissue specificity	Highly expressed in placenta, heart, kidney and small intestine. Detected at lower levels in neuronal cells in the brain, in skeletal muscle, spleen, liver, testes and colon.
Sequence similarities	Belongs to the peptidase M1 family.
Post-translational modifications	The pregnancy serum form is derived from the membrane-bound form by proteolytic processing. N-glycosylated.
Cellular localization	Cell membrane. In brain only the membrane-bound form is found. The protein resides in intracellular vesicles together with GLUT4 and can then translocate to the cell surface in response to insulin and/or oxytocin. Localization may be determined by dileucine internalization motifs, and/or by interaction with tankyrases and Secreted. During pregnancy serum levels are low in the first trimester, rise progressively during the second and third trimester and decrease rapidly after parturition.

Images



Immunoprecipitation - Anti-LNPEP antibody - N-terminal (ab190255)

Detection of LNPEP by Western Blot of Immunoprecipitate. ab190255 at 1 µg/ml labeling LNPEP in Jurkat whole cell lysate immunoprecipitated using ab190255 at 6 µg/reaction (1 mg/IP; 20% of IP loaded/lane). Detection: Chemiluminescence with exposure time of 30 seconds.



Western blot - Anti-LNPEP antibody - N-terminal (ab190255)

All lanes : Anti-LNPEP antibody - N-terminal (ab190255) at 0.1 µg/ml

Lane 1 : HeLa whole cell lysate
Lane 2 : 293T whole cell lysate
Lane 3 : Jurkat whole cell lysate

Lysates/proteins at 50 µg per lane.

Developed using the ECL technique.

Predicted band size: 117 kDa

Exposure time: 3 minutes

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