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LNPEP Antibody (N-Term) Blocking peptide
Synthetic peptide
Catalog # BP10272a

Specification

LNPEP Antibody (N-Term) Blocking peptide - Product Information

Primary Accession	Q9UIQ6
Other Accession	NP_005566.2, NP_787116.2

LNPEP Antibody (N-Term) Blocking peptide - Additional Information

Gene ID 4012

Other Names
Leucyl-cystinyl aminopeptidase, Cystinyl aminopeptidase, Insulin-regulated membrane aminopeptidase, Insulin-responsive aminopeptidase, IRAP, Oxytocinase, OTase, Placental leucine aminopeptidase, P-LAP, Leucyl-cystinyl aminopeptidase, pregnancy serum form, LNPEP, OTASE

Format
Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions
This product is for research use only. Not for use in diagnostic or therapeutic procedures.

LNPEP Antibody (N-Term) Blocking peptide - Protein Information

Name LNPEP

Synonyms OTASE

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.

Cellular Location
Cell membrane; Single-pass type II membrane protein Note=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

Tissue Location

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

LNPEP Antibody (N-Term) Blocking peptide - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Blocking Peptides

LNPEP Antibody (N-Term) Blocking peptide - Images

LNPEP Antibody (N-Term) Blocking peptide - Background

This gene encodes a zinc-dependent aminopeptidase thatcleaves vasopressin, oxytocin, lys-bradykinin, met-enkephalin,dynorphin A and other peptide hormones. The protein can be secretedin maternal serum, reside in intracellular vesicles with theinsulin-responsive glucose transporter GLUT4, or form a type Iintegral membrane glycoprotein. The protein catalyzes the finalstep in the conversion of angiotensinogen to angiotensin IV (AT4)and is also a receptor for AT4. Alternative splicing results inmultiple transcript variants encoding different isoforms. [providedby RefSeq].

LNPEP Antibody (N-Term) Blocking peptide - References

Georgiadou, D., et al. J. Immunol. 185(3):1584-1592(2010)Williams, P.J., et al. Placenta 31(5):448-455(2010)Landau, R., et al. Neuro Endocrinol. Lett. 31(1):63-66(2010)Johnson, M.P., et al. Hum. Genet. 126(5):655-666(2009)Saveanu, L., et al. Science 325(5937):213-217(2009)