10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.622.0609

LAP3 Antibody (N-term) Blocking Peptide

Synthetic peptide
Catalog # BP7296a

Specification

LAP3 Antibody (N-term) Blocking Peptide - Product Information

Primary Accession P28838

LAP3 Antibody (N-term) Blocking Peptide - Additional Information

Gene ID 51056

Other Names
Cytosol aminopeptidase, Leucine aminopeptidase 3, LAP-3, Leucyl aminopeptidase, Peptidase S, Proline aminopeptidase, Prolyl aminopeptidase, LAP3, LAPEP, PEPS

Target/Specificity
The synthetic peptide sequence used to generate the antibody AP7296a was selected from the N-term region of human LAP3. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

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.

LAP3 Antibody (N-term) Blocking Peptide - Protein Information

LAP3 Antibody (N-term) Blocking Peptide - Background

LAP3 is presumably involved in the processing and regular turnover of intracellular proteins. It catalyzes the removal of unsubstituted N-terminal amino acids from various peptides.Release of an N-terminal amino acid, Xaa-|-Yaa-, in which Xaa is preferably Leu, but may be other amino acids including Pro, although not Arg or Lys, and Yaa may be Pro.

LAP3 Antibody (N-term) Blocking Peptide - References

Goto,Y.,FEBS Lett. 580 (7), 1833-1838 (2006)Matsushima,M.,Biochem. Biophys. Res. Commun. 178 (3), 1459-1464 (1991)

Name LAP3 (HGNC:18449)

Function
Cytolosic metallopeptidase that catalyzes the removal of unsubstituted N-terminal hydrophobic amino acids from various peptides. The presence of Zn(2+) ions is essential for the peptidase activity, and the association with other cofactors can modulate the substrate spectificity of the enzyme. For instance, in the presence of Mn(2+), it displays a specific Cys-Gly hydrolyzing activity of Cys-Gly-S-conjugates. Involved in the metabolism of glutathione and in the degradation of glutathione S-conjugates, which may play a role in the control of the cell redox status.

Cellular Location
Cytoplasm
{ECO:0000250|UniProtKB:Q68FS4}.

LAP3 Antibody (N-term) Blocking Peptide - Protocols

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

- Blocking Peptides