10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

LAP3 Antibody (N-term)

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP7296a

Product Information

Application	WB, IHC-P, E
Primary Accession	P28838
Reactivity	Human
Predicted	Bovine, Canine, Rabbit
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB14573
Calculated MW	56166
Antigen Region	89-119

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	This LAP3 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 89-119 amino acids from the N-terminal region of human LAP3.
Dilution	WB~~1:1000 IHC-P~~1:100~500 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	LAP3 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	LAP3 (HGNC:18449)
Function	Cytosolic 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 specificity 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}.

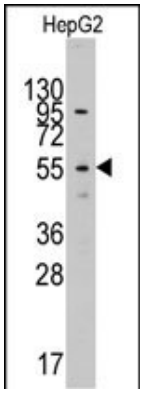
Background

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.

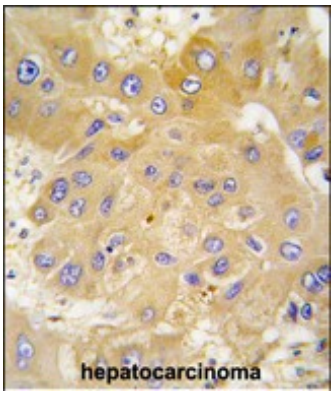
References

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

Images



Western blot analysis of anti-LAP3(N-term) Pab (Cat.#AP7296a) in HepG2 cell line lysates (35ug/lane). LAP3(arrow) was detected using the purified Pab.



Formalin-fixed and paraffin-embedded human hepatocarcinoma tissue reacted with LAP3 antibody (N-term) (Cat.#AP7296a), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.

Citations

- LAP3 promotes glioma progression by regulating proliferation, migration and invasion of glioma cells.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.