Datasheet for ABIN2712411

LAP3 Protein (Myc-DYKDDDDK Tag)

Go to Product page

2 Images

Overview

Quantity:	20 µg
Target:	LAP3
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This LAP3 protein is labelled with Myc-DYKDDDDK Tag.
Application:	Antibody Production (AbP), Functional Studies (Func), Protein Interaction (PI), Standard (STD)

Product Details

Specificity:	Optimal preservation of protein structure, post-translational modifications and functions.
Characteristics:	• Recombinant human Cytosol aminopeptidase protein expressed in HEK293 cells. • Produced with end-sequenced ORF clone • Tested for bioactivity.
Purity:	> 80 % as determined by SDS-PAGE and Coomassie blue staining
Biological Activity Comment:	LAP3 activity verified in a biochemical assay: Leucine aminopeptidase 3 (LAP3,) activity was measured in a fluorescent biochemical assay. LAP3 catalyzes the removal of unsubstituted N-terminal amino acids from various peptides and is most active on leucine. LAP3 activity was measured in a 100 µl reaction mixture containing 1 mM L-leucine 7-amido-4-methyl coumarin (Leu-AMC), 50 mM Tris, pH 8.0, 4 mM MgCl2, and 1 mM MnCl2. Cleavage of leucine from the AMC moiety results in a strong increase in fluorescence intensity. Fluorescence was measured

Product Details

over time with an excitation wavelength of 380 nm and an emission wavelength of 460 nm. The activity of the enzyme in this system remained constant over six hours.

Target Details

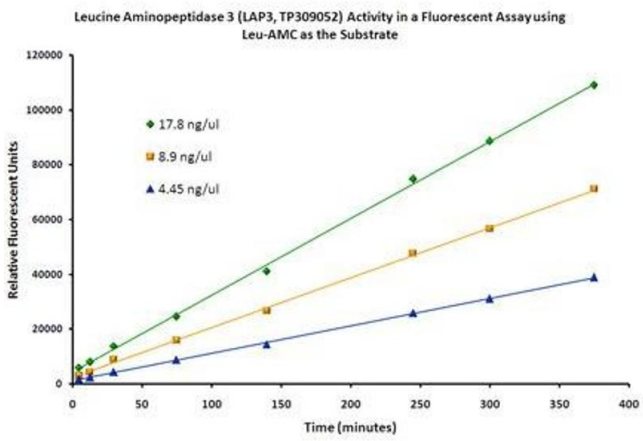
Target:	LAP3
Alternative Name:	Cytosol Aminopeptidase (LAP3 Products)
Background:	Presumably involved in the processing and regular turnover of intracellular proteins. Catalyzes the removal of unsubstituted N-terminal amino acids from various peptides. [UniProtKB/Swiss-Prot Function]
Molecular Weight:	56 kDa
NCBI Accession:	NP_056991

Application Details

Application Notes:	Recombinant human proteins can be used for: Native antigens for optimized antibody production Positive controls in ELISA and other antibody assays Protein-protein interaction In vitro biochemical assays and cell-based functional assays
Comment:	The tag is located at the C-terminal.
Restrictions:	For Research Use only

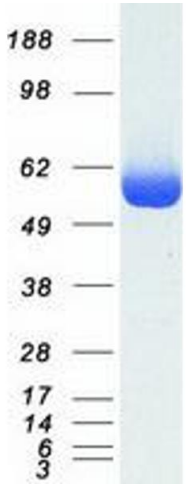
Handling

Concentration:	> 50 µg/mL
Buffer:	25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10 % glycerol.
Storage:	-80 °C
Storage Comment:	Store at -80°C. Thaw on ice, aliquot to individual single-use tubes, and then re-freeze immediately. Only 2-3 freeze thaw cycles are recommended.



Activity Assay

Image 1. Bioactivity measured with Activity Assay



Western Blotting

Image 2. Validation with Western Blot