Recombinant Human ALPL Protein, MYC/DDK-tagged, C13 and N15-labeled

Cat. No. ALPL-028H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	ALPL MS Standard C13 and N15-labeled recombinant protein (NP_000469) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	This gene encodes a member of the alkaline phosphatase family of proteins. There are at least four distinct but related alkaline phosphatases: intestinal, placental, placental-like, and liver/bone/kidney (tissue non-specific). The first three are located together on chromosome 2, while the tissue non-specific form is located on chromosome 1. The product of this gene is a membrane bound glycosylated enzyme that is not expressed in any particular tissue and is, therefore, referred to as the tissue-nonspecific form of the enzyme. Alternative splicing results in multiple transcript variants, at least one of which encodes a preproprotein that is proteolytically processed to generate the mature enzyme. This enzyme may play a role in bone mineralization. Mutations in this gene have been linked to hypophosphatasia, a disorder that is characterized by hypercalcemia and skeletal defects.
Molecular Mass	57.3 kDa
AA Sequence	MISPFLVLAIGTCLTNSLVPEKEKDPKYWRDQAQETLKYALELQKLNTNVAKNVIMFL GDGMGVSTVTAARILKGQLHHNPGEETRLEMDKFPFVALSKTYNTNAQVPDSAGTA

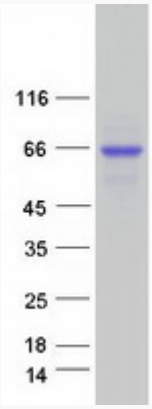
Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

	TAYLCGVKANEGTVGVSAATERSRCNTTQGNEVTSILRWAKDAGKSVGIVTTTRVN HATPSAAYAHSADRDWYSDNEMPPEALSQGCKDIAYQLMHNIRDIDVIMGGGRKYM YPKNKTDVEYESDEKARGTRLDGLDLVDTWKSFKPRYKHSHFIWNRTELLTLDPHN VDYLLGLFEPGDMQYELNRNNVTDPSLSEMVVVAIQILRKNPKGFFLLVEGGRIDHG HHEGKAKQALHEAVEMDRAIGQAGSLTSSEDTLTVVTADHSHVFTFGGYTPRGNSI FGLAPMLSDTDKKPFTAILYGNGPGYKVVGGERENVSMVDYAHNNYQAQSAVPLR HETHGGEDVAVFSKGPMAHLLHGVHEQNYVPHVMAYAACIGANLGHCAPASSAGS LAAGPLLLALALYPLSVLFTRTRPLEQKLISEEDLAANDILDYKDDDDKV	
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 3 months from receipt of products under proper storage and handling conditions.
Storage	Store at -80 centigrade. Avoid repeated freeze-thaw cycles.
Concentration	50 μg/mL as determined by BCA
Storage Buffer	100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name	ALPL alkaline phosphatase, biomineralization associated [Homo sapiens (human)]
Official Symbol	ALPL
Synonyms	ALPL; alkaline phosphatase, biomineralization associated; AP-TNAP; APTNAP; HOPS; TNALP; TNAP; TNSALP; alkaline phosphatase, tissue-nonspecific isozyme; alkaline phosphatase liver/bone/kidney isozyme; alkaline phosphatase, liver/bone/kidney; liver/bone/kidney-type alkaline phosphatase; tissue non-specific alkaline phosphatase; tissue-nonspecific ALP; EC 3.1.3.1

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Gene ID	249
mRNA Refseq	NM_000478
Protein Refseq	NP_000469
MIM	171760
UniProt ID	P05186
SDS-PAGE	

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