

# Recombinant Full Length Human ALPL Protein, GST-tagged

**Cat. No.** ALPL-1486HF    **Lot. No.** (See product label)

## SPECIFICATION

<b>Product Overview</b>	Human ALPL full-length ORF ( NP_000469.3, 1 a.a. - 524 a.a.) recombinant protein with GST-tag at N-terminal.
<b>Species</b>	Human
<b>Source</b>	In Vitro Cell Free System
<b>ProteinLength</b>	524 amino acids
<b>Description</b>	<p>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. [provided by RefSeq, Oct 2015]</p>
<b>Molecular Mass</b>	83.7 kDa
<b>AA Sequence</b>	MISPFLVLAI GTCLTNSLVP EKEKDPKYWR DQAQETLKYA LELQKLNTNV

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AKNVIMFLGD GMGVSTVTAA RILKGQLHHN PGEETRLEMD KFPFVALSKT  
 YNTNAQVPDS AGTATAYLCG VKANEGTVGV SAATERSRCN TTQGNEVTSI  
 LRWAKDAGKS VGIVTTTRVN HATPSAAYAH SADRWDYSDN EMPPEALSQG  
 CKDIAYQLMH NIRDIDVIMG GGRKYMYPKN KTDVEYESDE KARGTRLDGL  
 DLVDTWKSFK PRYKSHSHFIW NRTELLTLDP HNVDYLLGLF EPGDMQYELN  
 RNNVTDP SLS EMVVVAIQIL RKNPKGFFLL VEGGRIDHGH HEGKAKQALH  
 EAVEMDRAIG QAGSLTSSD TLTVVTADHS HVFTFGGYTP RGNSIFGLAP  
 MLSDTDKKPF TAILYGNGPG YKVVGGEREN VSMVDYAHNN YQAQSAVPLR  
 HETHGGEDVA VFSKGPM AHL LHGVHEQNYV PHVMAYAACI GANLGHCAPA  
 SSAGSLAAGP LLLALALYPL SVLF

**Applications**

Enzyme-linked Immunoabsorbent Assay; Western Blot (Recombinant protein);  
 Antibody Production; Protein Array

**Storage**

Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.

**Storage Buffer**

50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

## GENE INFORMATION

**Gene Name**

[ALPL alkaline phosphatase, liver/bone/kidney \[ Homo sapiens \]](#)

**Official Symbol**

[ALPL](#)

**Synonyms**

ALPL; alkaline phosphatase, liver/bone/kidney; HOPS; alkaline phosphatase, tissue-nonspecific isozyme; TNSALP; glycerophosphatase; tissue-nonspecific ALP; alkaline phosphomonoesterase; liver/bone/kidney-type alkaline phosphatase; alkaline phosphatase liver/bone/kidney isozyme; TNAP; APTNAP; AP-TNAP; FLJ40094; FLJ93059; MGC161443; MGC167935

**Gene ID**

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mRNA Refseq	NM_000478
Protein Refseq	NP_000469
MIM	171760
UniProt ID	P05186

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