

Recombinant Full Length Human ALPL Protein, GST-tagged

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

SPECIFICATION

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

 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

AKNVIMFLGD GMGVSTVTAA RILKGQLHHN PGEETRLEMD KFPFVALSKT
 YNTNAQVPDS AGTATAYLCG VKANEGTVGV SAATERSRCN TTQGNEVTSI
 LRWAKDAGKS VGIIVTTTRVN HATPSAAYAH SADRWDYSDN EMPPEALSQG
 CKDIAYQLMH NIRDIDVIMG GGRKYMYPKN KTDVEYESDE KARGTRLDGL
 DLVDTWKSFK PRYKHSHFIW 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

249

 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

mRNA Refseq	NM_000478
Protein Refseq	NP_000469
MIM	171760
UniProt ID	P05186

 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