Datasheet for ABIN7318146

ALPL Protein (His tag)

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Overview

Quantity:	50 µg
Target:	ALPL
Origin:	Human
Source:	Human Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This ALPL protein is labelled with His tag.

Product Details

Purpose:	Recombinant Human Alkaline Phosphatase/ALPL Protein (His Tag)
Sequence:	Leu18-Ser502
Characteristics:	Recombinant Human Alkaline Phosphatase, Tissue-Nonspecific Isozyme is produced by our Mammalian expression system and the target gene encoding Leu18-Ser502 is expressed with a 6His tag at the C-terminus.
Purity:	> 95 % as determined by reducing SDS-PAGE.
Endotoxin Level:	< 1.0 EU per µg as determined by the LAL method.

Target Details

Target:	ALPL
Alternative Name:	Alkaline Phosphatase/ALPL (ALPL Products)
Background:	Background: Alkaline Phosphatase, Tissue-Nonspecific Isozyme (ALPL) is a cell membrane protein which belongs to the alkaline phosphatase family. There are at least four distinct but

Target Details

	related alkaline phosphatases in humans: intestinal AP (IAP), placental AP(PLAP), germ cell AP (GCAP) and their genes are clustered on chromosome 2, tissue-nonspecific isozyme (TNAP) which gene is located on chromosome 1. Alkaline phosphatases (APs) are dimeric enzymes, it catalyze the hydrolysis of phosphomonoesters with release of inorganic phosphate. The native ALPL is a glycosylated homodimer attached to the membrane through a GPI-anchor. This isozyme may play a role in skeletal mineralization. Mutations in ALPL gene have been linked directly to different forms of hypophosphatasia,characterized by poorly mineralized cartilage and bones, and this disorder can vary depending on the specific mutation since this determines age of onset and severity of symptoms. Synonym: Alkaline Phosphatase, Tissue-Nonspecific Isozyme, AP-TNAP, TNSALP, Alkaline Phosphatase Liver/Bone/Kidney Isozyme, ALPL,HOPS,TNAP
Molecular Weight:	54.5 kDa
UniProt:	P05186

Application Details

Restrictions:	For Research Use only

Handling

Format:	Frozen, Liquid
Buffer:	Supplied as a 0.2 µm filtered solution of 20 mM HEPES, 150 mM NaCl, 2 mM MgSO4, 0.1 mM ZnCl2, pH 7.5.
Storage:	-20 °C
Storage Comment:	Store at < -20°C, stable for 6 months. Please minimize freeze-thaw cycles.