



Datasheet for ABIN7273854

Alkaline Phosphatase Protein (ALP) (AA 23-506) (His tag)



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3 Images

Overview

Quantity:	100 µg
Target:	Alkaline Phosphatase (ALP)
Protein Characteristics:	AA 23-506
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This Alkaline Phosphatase protein is labelled with His tag.

Product Details

Purpose:	Human Alkaline Phosphatase (Placental type) /ALPP Protein
Sequence:	Ile23-Asp506
Characteristics:	Recombinant Human Alkaline Phosphatase (Placental type) /ALPP Protein is expressed from HEK293 with His tag at the C-Terminus.It contains Ile23-Asp506.
Purity:	> 95 % as determined by Tris-Bis PAGE,> 95 % as determined by HPLC
Sterility:	0.22 µm filtered
Endotoxin Level:	Less than 1EU per µg by the LAL method.
Biological Activity Comment:	Immobilized Human Alkaline Phosphatase, His Tag at 0.5µg/ml (100µl/Well) on the plate. Dose response curve for Anti-Alkaline Phosphatase Antibody, hFc Tag with the EC50 of 17.1ng/ml determined by ELISA. See testing image for detail.

Target Details

Target:	Alkaline Phosphatase (ALP)
Alternative Name:	Alkaline Phosphatase (ALP Products)
Background:	Alkaline phosphatase can be considered "our favorite enzyme" for reasons apparent to those who diagnose and treat metabolic bone diseases or who study skeletal biology. Few might know, however, that alkaline phosphatase likely represents the most frequently assayed enzyme in all of medicine. Elevated activity in the circulation is universally recognized as a marker for skeletal or hepatobiliary disease.
Molecular Weight:	53.8 kDa. Due to glycosylation, the protein migrates to 63-68 kDa based on Tris-Bis PAGE result.
UniProt:	P05187

Application Details

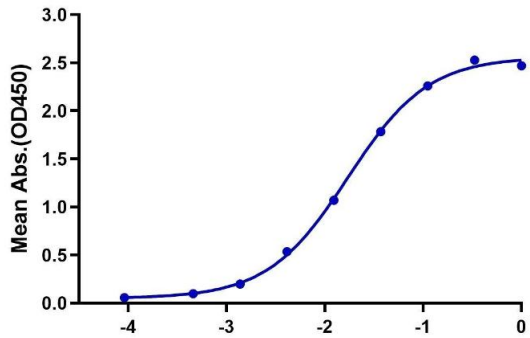
Restrictions:	For Research Use only
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Handling

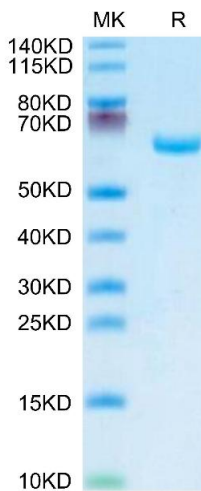
Format:	Lyophilized
Reconstitution:	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/mL is recommended. Dissolve the lyophilized protein in distilled water.
Buffer:	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 8 % trehalose is added as protectant before lyophilization.
Storage:	-20 °C,-80 °C
Storage Comment:	-20 to -80°C for 12 months as supplied from date of receipt.,-80°C for 3-6 months after reconstitution.,2-8°C for 2-7 days after reconstitution.,Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.
Expiry Date:	12 months

Human Alkaline Phosphatase, His Tag ELISA

0.05µg Human Alkaline Phosphatase, His Tag Per Well



Log Anti-Alkaline Phosphatase Antibody, hFc Tag Conc.(µg/ml)



ELISA

Image 1. Immobilized Human Alkaline Phosphatase, His Tag at 0.5 µg/mL (100 µL/Well) on the plate. Dose response curve for Anti-Alkaline Phosphatase Antibody, hFc Tag with the EC50 of 17.1 ng/mL determined by ELISA.

SDS-PAGE

Image 2. Human Alkaline Phosphatase on Tris-Bis PAGE under reduced condition. The purity is greater than 95 % .

Size-exclusion chromatography-High Pressure Liquid Chromatography

Image 3. The purity of Human Alkaline Phosphatase is greater than 95 % as determined by SEC-HPLC.

