

Product datasheet for PH310504

Alkaline Phosphatase (ALPP) (NM_001632) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	ALPP MS Standard C13 and N15-labeled recombinant protein (NP_001623)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC210504
Predicted MW:	58 kDa
Protein Sequence:	>RC210504 protein sequence Red =Cloning site Green =Tags(s)

MLGPCMLLLLLLLGLRLQLSLGIIPVEEENPDFWNREAAEALGAACKLQPAQTAANKLIIFLDGGMGVST
 VTAARILKGQKKDKLGPEIPLAMDRFPYVALSKTYNVDKHVPDGSATATAYLCGVKGNFQTIGLSAAARF
 NQCNTTRGNEVISVMNRACKAGKSVGVTTRVQHASPAGTYAHTVNRNWYSDADVPASARQEGCQDIAT
 QLISNMDIDVILGGGRKYMFRMGTPDPEYPDDYSQGGTRLDGKNLVQEWLAKRQGARYVWNRTLMQASL
 DPSVTHLMGLFEPGDMKYEIHRDSTLDPSLMEMTEAALRLLSRNPRGFFLFVEGGRIDHGHESRAYRAL
 TETIMFDDAIERAGQLTSEEDTSLVTADHSHVFSFGGYPLRGSSIFGLAPGKARDRKAYTVLLYGNPGP
 YVLKDGARPDVTESESGSPEYRQSAVPLDEETHAGEDVAVFARGPQAHLVHGVQEQTFAHVMAFAACL
 EPYTACDLAPPAGTTDAHPGRSVVPALLPLLAGTLLLLLETATAP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- ¹³ C ₆ , ¹⁵ N ₄]-L-Arginine and [U- ¹³ C ₆ , ¹⁵ N ₂]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	<u>NP_001623</u>
RefSeq Size:	2883
RefSeq ORF:	1605


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Synonyms: ALP; ALPI; IAP; PALP; PLAP; PLAP-1

Locus ID: 250

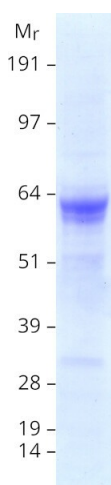
UniProt ID: [P05187](#), [B2R7C7](#)

Cytogenetics: 2q37.1

Summary: The protein encoded by this gene is an alkaline phosphatase, a metalloenzyme that catalyzes the hydrolysis of phosphoric acid monoesters. It belongs to a multigene family composed of four alkaline phosphatase isoenzymes. The enzyme functions as a homodimer and has a catalytic site containing one magnesium and two zinc ions, which are required for its enzymatic function. One of the main sources of this enzyme is the liver, and thus, it's one of several indicators of liver injury in different clinical conditions. In pregnant women, this protein is primarily expressed in placental and endometrial tissue, however, strong ectopic expression has been detected in ovarian adenocarcinoma, serous cystadenocarcinoma, and other ovarian cancer cells. [provided by RefSeq, Aug 2020]

Protein Pathways: Folate biosynthesis, Metabolic pathways

Product images:



Coomassie blue staining of purified ALPP protein (Cat# [TP310504]). The protein was produced from HEK293T cells transfected with ALPP cDNA clone (Cat# [RC210504]) using MegaTran 2.0 (Cat# [TT210002]).