

Recombinant Human ALPP Protein, His tagged

Cat. No. ALPP-302H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human ALPP Protein with His tag was expressed in HEK293.
Species	Human
Source	HEK293
Description	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.
Form	Lyophilized
Molecular Mass	The protein has a calculated MW of 53 kDa.
AA Sequence	IIPVEEENPDFWNREAAEALGAACKLQPAQTAAKNLIIFLGDMGVSTVTAARILKGQ KKDKLGPEIPLAMDRFPYVALSKTYNVDKHVPDSGATATAYLCGVKGNFQTIGLSAA ARFNQCNTTRGNEVISVMNRAKKAGKSVGVTTRVQHASPAGTYAHTVNRNWYS DADVPASARQEGCQDIATQLISNMDIDVILGGGRKYMFRMGTPDPEYPDDYSQGGT RLDGKNLVQEWLAKRQGARYVWNRTLMQASLDPSVTHLMGLFEPGDMKYEIHRD

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STLDPSLMEMTEAALRLLSRNPRGFFLFVEGGRIDHGHHSRAYRALTETIMFDDAIE
RAGQLTSEEDTLSLVTADHSHVFSFGGYPLRGSSIFGLAPGKARDRKAYTVLLYGNG
PGYVLKDGARPDVTESESGSPEYRQQSAVPLDEETHAGEDVAVFARGPQAHLVHG
VQEQTFAIHVMAFAACLEPYTACDLAPPAGTTDVDHHHHHH

Endotoxin < 0.01 EU/μg by LAL

Purity > 95% by SDS-PAGE

Storage Store it under sterile conditions at -20 to -80 centigrade. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

Storage Buffer Lyophilized from sterile PBS, pH 7.4, 10% trehalose

Reconstitution It is recommended that sterile water be added to the vial to prepare a stock solution of 0.56 mg/mL. Centrifuge the vial at 4 centigrade before opening to recover the entire contents.

GENE INFORMATION

Gene Name ALPP alkaline phosphatase, placental [Homo sapiens]

Official Symbol ALPP

Synonyms ALPP; alkaline phosphatase, placental; alkaline phosphatase, placental (Regan isozyme); alkaline phosphatase, placental type; Regan isozyme; PLAP-1; glycerophosphatase; alkaline phosphomonoesterase; placental alkaline phosphatase 1; alkaline phosphatase Regan isozyme; ALP; PALP; PLAP; FLJ61142;

Gene ID 250

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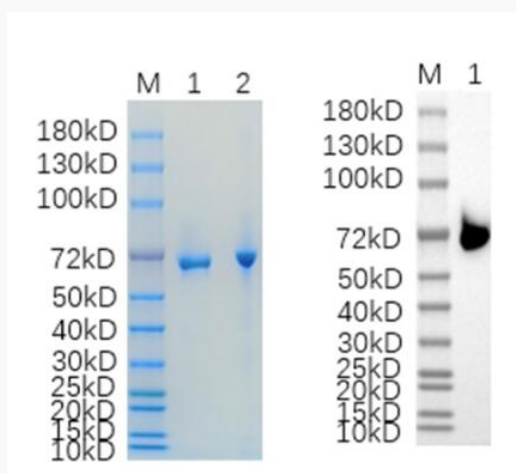
mRNA Refseq [NM_001632](#)

Protein Refseq [NP_001623](#)

MIM [171800](#)

UniProt ID [P05187](#)

Reducing 12% SDS-PAGE (CBB stained) and WB (Anti-His Mouse Monoclonal antibody) analysis profile of purified ALPP.



1. ALPP-302H

2. BSA

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