

## Recombinant Human ALPP Protein, His-tagged

Cat. No. ALPP-125H Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant Human ALPP Protein (Arg249-Met484) with N-His tag was expressed in E. coli.
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>ProteinLength</b>	Arg249-Met484
<b>Description</b>	<p>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.</p>
<b>Form</b>	Freeze-dried powder
<b>Molecular Mass</b>	Predicted Molecular Mass: 30.0 kDa Accurate Molecular Mass: 35 kDa
<b>Purity</b>	> 90%

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<b>Applications</b>	Positive Control; Immunogen; SDS-PAGE; WB.
<b>Stability</b>	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 centigrade for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
<b>Storage</b>	Avoid repeated freeze/thaw cycles. Store at 2-8 centigrade for one month. Aliquot and store at -80 centigrade for 12 months.
<b>Storage Buffer</b>	20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose and Proclin300.
<b>Reconstitution</b>	Reconstitute in sterile water to a concentration of 0.1-1.0 mg/mL. Do not vortex.

## GENE INFORMATION

<b>Gene Name</b>	ALPP alkaline phosphatase, placental [ Homo sapiens (human) ]
<b>Official Symbol</b>	ALPP
<b>Synonyms</b>	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
<b>Gene ID</b>	250
<b>mRNA Refseq</b>	NM_001632
<b>Protein Refseq</b>	NP_001623

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