

# Recombinant Full Length Human ALPP Protein, GST-tagged

Cat. No. ALPP-1487HF Lot. No. (See product label)

## SPECIFICATION

|                         |  |
|-------------------------|--|
| <b>Product Overview</b> | Human ALPP full-length ORF ( NP_001623.3, 1 a.a. - 535 a.a.) recombinant protein with GST-tag at N-terminal.   |
| <b>Species</b>          | Human  |
| <b>Source</b>           | In Vitro Cell Free System  |
| <b>ProteinLength</b>    | 535 amino acids  |
| <b>Description</b>      | 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. The 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, Jan 2015] |
| <b>Molecular Mass</b>   | 84.4 kDa   |
| <b>AA Sequence</b>      | MLGPCMLLLL LLLGLRLQLS LGIIPVEEEN PDFWNREAAE ALGAAKKLQP<br>AQTAAKNLII FLGDGMGVST VTAARILKGQ KDKDLGPEIP LAMDRFPYVA<br>LSKTYNVDKH VPDSGATATA YLCGVKGNFQ TIGLSAAARF NQCNTTRGNE<br>VISVMNRACK AGKSVGVTTRVQHASAPAG TYAHTVNRNW YSDADVPPASA<br>RQEGCQDIAT QLISNMDIDV ILGGGRKYMFMGTPDPEYP DDYSQGGTRL  |

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DGKNLVQEWL AKRQGARYVW NRTELMQASL DPSVTHLMGL FEPGDMKYEI  
 HRDSTLDPSL MEMTEAALRL LSRNPRGFFL FVEGGRIDHG HHESRAYRAL  
 TETIMFDDAI ERAGQLTSEE DTLSLVTADH SHVFSFGGYP LRGSSIFGLA  
 PGKARDRKAY TVLLYGNGPG YVLKDGARPD VTESESGSPE YRQQSAVPLD  
 EETHAGEDVA VFARGPQ AHL VHGVQEQTFI AHVMAFAACL EPYTACDLAP  
 PAGTTDAAHP GRSVVPALLP LLAGTLLLLLE TATAP

**Applications**

Enzyme-linked Immunoabsorbent Assay; Western Blot (Recombinant protein);  
 Antibody Production; Protein Array

**Storage**

Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.

**Storage Buffer**

50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

## 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](#)

**mRNA Refseq**

[NM\\_001632](#)

**Protein Refseq**

[NP\\_001623](#)

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| <b>MIM</b> | 171800 |
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| <b>UniProt ID</b> | P05187 |
|-------------------|--------|

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