

Recombinant Full Length Human ALPP Protein, GST-tagged

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

SPECIFICATION

Product Overview	Human ALPP full-length ORF (NP_001623.3, 1 a.a. - 535 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	In Vitro Cell Free System
ProteinLength	535 amino acids
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. 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]
Molecular Mass	84.4 kDa
AA Sequence	MLGPCMLLLL LLLGLRLQLS LGIIPVEEEN PDFWNREAAE ALGAAKKLQP AQTAAKNLII FLGDGMGVST VTAARILKGQ KKDKLGPEIP LAMDRFPYVA LSKTYNVDKH VPDSGATATA YLCGVKGNFQ TIGLSAAARF NQCNTTRGNE VISVMNRACK AGKSVGVTTR TRVQHASPAG TYAHTVNRNW YSDADVPASA RQEGCQDIAT QLISNMDIDV ILGGGRKYMFMGTPDPEYP DDYSQGGTRL

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

DGKNLVQEWL AKRQGARYVW NRTELMQASL DPSVTHLMGL FEPGDMKYEI
 HRDSTLDPSL MEMTEAALRL LSRNPRGFFL FVEGGRIDHG HHESRAYRAL
 TETIMFDDAI ERAGQLTSEE DTLSLVTADH SHVFSFGGYP LRGSSIFGLA
 PGKARDRKAY TVLLYGNGPG YVLKDGARPD VTESESGSPE YRQQSAVPLD
 EETHAGEDVA VFARGPQAHV VHGVQEQTFI AHVMAFAACL EPYTACDLAP
 PAGTTDAAHP GRSVVPALLP LLAGTLLLLL 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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MIM	171800
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UniProt ID	P05187
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