

**Alkaline phosphatase, placental, human recombinant**  
**ALPP, Alkaline phosphatase Regan isozyme, Placental alkaline phosphatase 1, PLAP-1**  
**Catalog # PBV11524r****Specification**

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**Alkaline phosphatase, placental, human recombinant - Product info**

Primary Accession [P05187](#)  
Calculated MW **53.9 kDa KDa**

**Alkaline phosphatase, placental, human recombinant - Additional Info**

Gene ID **250**

**Other Names**

ALPP, Alkaline phosphatase Regan isozyme, Placental alkaline phosphatase 1, PLAP-1

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|--------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Gene Source  | <b>Human</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Source       | <b>Baculovirus</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Assay&Purity | <b>SDS-PAGE;&gt; 95%</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Recombinant  | <b>Yes</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Sequence     | <b>ADLMIIPVEE ENPDFWNREA AEALGAAKKL<br/>QPAQTAANKL IIFLGDGMGV STVTAARILK<br/>GQKKDKLGPE LPLAMDRFPY VALSKTYNVD<br/>KHVPDSGATA TAYLCGVKGN FQTIGLSAAA<br/>RFNQCNTTRG NEVISVMNRA KKAGKSVGTV<br/>TTTRVQHASP AGTYAHTVNR NWYSDADVPA<br/>SARQEGCQDI ATQLISNMDI DVILGGGRKY<br/>MFRMGTPDPE YPDDYSQGGT RLDGKNLVQE<br/>WLAKRQGARY VWNRTLMQA SLDPSVTHLM<br/>GLFEPGDMKY EIHRDSTLDP SLMEMTEAAL<br/>RLLSRNPRGF FLFVEGGRID HGHESRAYR<br/>ALTETIMFDD AIERAGQLTS EEDTLNLTVA<br/>DHSVVSFSGG YPLRGSSIFG LAPGKARDRK<br/>AYTVLLYGNG PGYVLKDGAR PDVTESESGS<br/>PEYRQQSAVP LDEETHAGED VAVFARGPQA<br/>HLVHGVQEQT FIAHVMAFAA CLEPYTACDL<br/>APPAGTTDHH HHHH</b> |

**Target/Specificity**

ALPP

**Format**

Liquid

**Storage**

-20°C;In Phosphate Buffered Saline (pH 7.4) containing 10% glycerol

**Alkaline phosphatase, placental, human recombinant - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

#### **Alkaline phosphatase, placental, human recombinant - Images**

#### **Alkaline phosphatase, placental, human recombinant - Background**

ALPP, also known as alkaline phosphatase, placental, is a family of dimeric metalloenzymes catalyzing the hydrolysis of monoesters of phosphoric acid. Also, this protein catalyzes a transphosphorylation reaction in the presence of large concentrations of phosphate acceptors. It occurs widely in nature, and are found in many organisms from Escherichia coli to man. Most alkaline phosphatases are homodimeric enzymes and each catalytic site contains three metal ions (two Zn and one Mg), that are necessary for enzymatic activity. Recombinant human ALPP, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.