

Active Recombinant Rat Alpp Protein, His-tagged

Cat. No. Alpp-11002R **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Rat ALPP Protein, His Tag is expressed from human 293 cells (HEK293). It contains AA Leu 19 - Ser 501 (Accession # D4ADM6). This protein carries a polyhistidine tag at the C-terminus. Predicted N-terminus: Leu 19
Species	Rat
Source	HEK293
ProteinLength	19-501 aa
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. [provided by RefSeq, Aug 2020]
Form	Lyophilized from 0.22 µm filtered solution in 20 mM Tris, 150 mM NaCl, pH7.5 with trehalose as protectant.
Bio-activity	Immobilized Rat ALPP Protein, His Tag at 1

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	µg/mL (100 µL/well) can bind various dilution ratio of Anti-ALPP/ALPG/ALPI Polyclonal Antibody.
Molecular Mass	The protein has a calculated MW of 54.4 kDa. The protein migrates as 60-65 kDa when calibrated against Star Ribbon Pre-stained Protein Marker under reducing (R) condition (SDS-PAGE) due to glycosylation.
Endotoxin	Less than 1.0 EU/µg by the LAL method/rFC method.
Purity	>90% as determined by SDS-PAGE.
Storage	This product is stable after storage at: -20 to -70 centigrade for 12 months in lyophilized state; -70 centigrade for 3 months under sterile conditions after reconstitution. For long term storage, the product should be stored at lyophilized state at -20 centigrade or lower. Please avoid repeated freeze-thaw cycles.
Reconstitution	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 µg/µL. Centrifuge the vial at 4 centigrade before opening to recover the entire contents.

GENE INFORMATION

Gene Name	Alpp alkaline phosphatase, placental [Rattus norvegicus (Norway rat)]
Official Symbol	ALPP
Synonyms	Alpp; alkaline phosphatase, placental; alkaline phosphatase, germ cell type; rCG23846-like
Gene ID	100359675

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mRNA Refseq	XM_002730058
Protein Refseq	XP_002730104
UniProt ID	D4ADM6

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