

Product Data Sheet

□ Cat # RP-414

Recombinant Human Placental Alkaline Phosphatase

Size: □ 2ug

Placental alkaline phosphatase (PLAP) is a membrane-associated siaglycoprotein enzyme normally present at high concentration in syncytiotrophoblasts within the placenta during the third trimester of gestation. The expression of PLAP was originally thought to be restricted to term placenta but a human PLAP-like variant has been described which shares more than 85% homology with PLAP itself. PLAP is expressed only in normal term placenta, endocervix and fallopian tube and also in ovarian and proximal gastrointestinal tumors. It is also commonly expressed in germ cell tumors and more recently described in seminomas.

**Source:** *Escherichia Coli*. Placental Alkaline Phosphatase Human Recombinant encoding 154-287 amino acids expressed in *E.coli*. PLAP at 100µg/ml in 50mM Tris-Acetate, pH7.5, 1mM EDTA and 20% Glycerol.

**Storage and Stability:** Store vial at -20°C to -80°C. When stored at the recommended temperature, this protein is stable for 12 months. **Please prevent freeze-thaw cycles.** If supplied in powder then reconstitute it in 100 ul water for 1 mg/ml stock and store in liquid at 4oC for ~1 week or aliquots in suitable size and store at -20oC for long term storage.

**Applications and Suggested Dilutions:** On SDS-PAGE commassie blue stained gel, the purified recombinant protein shows a band at 41 kDa. Users must optimize the appropriate concentration and conditions for each assay.

**Usage:** This item is for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

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