

## Product datasheet for BA027

### Alkaline phosphatase / PLAP / ALPP Human Protein

#### Product data:

Product Type:	Native Proteins
Description:	Alkaline phosphatase / PLAP / ALPP human protein, 0.1 kU
Species:	Human
Protein Source:	Placenta
Concentration:	lot specific
Purity:	95% protein (by Biuret).
Buffer:	Phosphate buffered saline. No preservatives.
Bioactivity:	Specific: 1069U/mg solid; 1000U/ml One unit liberates one micromole of p-nitrophenol per minute at 37°C, pH 9.8 in diethanolamine buffer
Preparation:	Purified AP from human placenta - liquid
Applications:	ELISA.
Protein Description:	Purified native human Alkaline Phosphatase (AP)
Note:	Caution: Source material supplied to your facility has been tested negative for Hepatitis and HIV. Nevertheless, all products from human sources should be handled as potentially infectious.
Storage:	Store at -20°C only. Storage in frost-free freezers is not recommended. Avoid repeated freezing and thawing. This product should be stored undiluted.
Stability:	Shelf life: one year from despatch.
RefSeq:	<a href="#">NP_001623</a>
Locus ID:	250
Cytogenetics:	2q37.1
Synonyms:	PLAP-1, Alkaline phosphatase Regan isozyme



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**Summary:** 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]

**Protein Families:** ELISA.

**Protein Pathways:** Folate biosynthesis, Metabolic pathways