

Alkaline Phosphatase, Calf Intestine recombinant protein
ALP-1, ALPPL2, ALPPL, ALPP, ALP, PALP, PLAP, PLAP-1.
Catalog # PBV11192r**Specification**

Alkaline Phosphatase, Calf Intestine recombinant protein - Product infoPrimary Accession [P09487](#)**Alkaline Phosphatase, Calf Intestine recombinant protein - Additional Info**

Gene ID	280994
Gene Symbol	ALPL
Other Names	
ALP-1, ALPPL2, ALPPL, ALPP, ALP, PALP, PLAP, PLAP-1	
Gene Source	Calf
Source	Calf Intestine
Assay&Purity	SDS-PAGE; ≥98%
Assay2&Purity2	N/A;
Results	3,000-6,000 U/mg protein
Target/Specificity	
Alkaline Phosphatase	

Application Notes

Reconstitute in distilled water or dilute buffer.

Format

Freeze Dried

Storage

-20°C; Lyophilized without any additives.

Alkaline Phosphatase, Calf Intestine recombinant protein - 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, Calf Intestine recombinant protein - Images**Alkaline Phosphatase, Calf Intestine recombinant protein - Background**

Alkaline Phosphatase (ALP) is a hydrolase enzyme responsible for removing phosphate groups in the 5- and 3- positions from many types of molecules, including nucleotides, proteins, and alkaloids. In humans, alkaline phosphatase is present in all tissues throughout the entire body, but is particularly concentrated in liver, bile duct, kidney, bone, and the placenta. The optimal pH for the enzyme activity is pH 10 in standard conditions. There are at least four distinct but related alkaline phosphatases: intestinal, placental, placental-like, and liver/bone/kidney (tissue non-specific). The first three are located together on chromosome 2 while the tissue non-specific form is located on chromosome 1. The product of this gene is a membrane bound glycosylated enzyme, also referred to as the heat stable form that is expressed primarily in the placenta although it is closely related to the intestinal form of the enzyme as well as to the placental-like form. The coding sequence for this form of alkaline phosphatase is unique in that the 3' untranslated region contains multiple copies of an Alu family repeat. In addition, this gene is polymorphic and three common alleles (type 1, type 2 and type 3) for this form of alkaline phosphatase have been well characterized.

Alkaline Phosphatase, Calf Intestine recombinant protein - References

Garattini E., et al. Gene 59:41-46(1987).
Hua J.-C., et al. Proc. Natl. Acad. Sci. U.S.A. 83:2368-2372(1986).