

## Product datasheet for **AM32067PU-N**

### Alkaline Phosphatase (ALPP) Mouse Monoclonal Antibody [Clone ID: V17.1]

#### Product data:

Product Type:	Primary Antibodies
Clone Name:	V17.1
Applications:	ELISA, IHC
Recommended Dilution:	<b>ELISA.</b> <b>Immunohistochemistry on Frozen Sections.</b>
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	A BALB/c Mouse was immunized with Alkaline Phosphatase.
Specificity:	This antibody clone <i>V17.1</i> reacts with alkaline phosphatase, an enzyme widely used in immunodetection tests. Can be used for detection of Alkaline Phosphatase and for amplification of Alkaline Phosphatase reactions (APAP).
Formulation:	PBS State: Purified State: Liquid purified IgG fraction Preservative: 0.05% Sodium Azide
Concentration:	lot specific
Conjugation:	Unconjugated
Storage:	Store the antibody undiluted at 2-8°C for one month or -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	alkaline phosphatase, placental
Database Link:	<a href="#">P05187</a>



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**Background:**

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 that is not expressed in any particular tissue and is, therefore, referred to as the tissue-nonspecific form of the enzyme. The exact physiological function of the alkaline phosphatases is not known. A proposed function of this form of the enzyme is matrix mineralization; however, mice that lack a functional form of this enzyme show normal skeletal development. This enzyme has been linked directly to hypophosphatasia, a disorder that is characterized by hypercalcemia and includes skeletal defects. The character of this disorder can vary, however, depending on the specific mutation since this determines age of onset and severity of symptoms. Alternatively spliced transcript variants, which encode the same protein, have been identified for this gene.

**Synonyms:**

PLAP-1, Alkaline phosphatase Regan isozyme