

# Alkaline Phosphatase (ALPL) Rabbit mAb

Catalog No.: A0514

Recombinant

7 Publications

## Basic Information

**Observed MW**

80kDa

**Calculated MW**

57kDa

**Category**

Primary antibody

**Applications**

ELISA, WB, IHC-P

**Cross-Reactivity**

Human, Mouse, Rat

**CloneNo number**

ARC0245

## Background

This gene encodes a member of the alkaline phosphatase family of proteins. 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. Alternative splicing results in multiple transcript variants, at least one of which encodes a preproprotein that is proteolytically processed to generate the mature enzyme. This enzyme may play a role in bone mineralization. Mutations in this gene have been linked to hypophosphatasia, a disorder that is characterized by hypercalcemia and skeletal defects.

## Recommended Dilutions

WB 1:500 - 1:2000

IHC-P 1:50 - 1:200

## Immunogen Information

**Gene ID**

249

**Swiss Prot**

P05186

**Immunogen**

A synthetic peptide corresponding to a sequence within amino acids 1-100 of human Alkaline Phosphatase (ALPL) (P05186).

**Synonyms**

HOPS; HPPA; HPPC; HPPI; HPPO; TNAP; TNALP; APTNAP; TNSALP; AP-TNAP; TNS-ALP; Alkaline Phosphatase (ALPL)

## Contact

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## Product Information

**Source**

Rabbit

**Isotype**

IgG

**Purification**

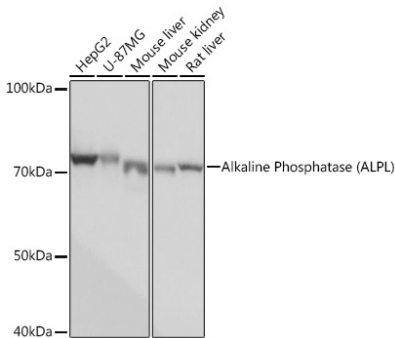
Affinity purification

**Storage**

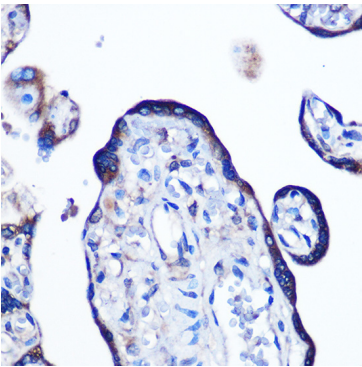
Store at -20°C. Avoid freeze / thaw cycles.

Buffer: PBS with 0.02% sodium azide, 0.05% BSA, 50% glycerol, pH7.3.

# Validation Data



Western blot analysis of extracts of various cell lines, using Alkaline Phosphatase (ALPL) Rabbit mAb (A0514) at 1:1000 dilution.  
Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.  
Lysates/proteins: 25µg per lane.  
Blocking buffer: 3% nonfat dry milk in TBST.  
Detection: ECL Basic Kit (RM00020).  
Exposure time: 1s.



Immunohistochemistry analysis of paraffin-embedded human placenta using Alkaline Phosphatase (ALPL) (ALPL) Rabbit mAb (A0514) at dilution of 1:100 (40x lens). Perform microwave antigen retrieval with 10 mM PBS buffer pH 7.2 before commencing with IHC staining protocol.