

# Placental alkaline phosphatase (PLAP) Rabbit pAb

Catalog No.: A21424

## Basic Information

### Observed MW

Refer to figures

### Calculated MW

58kDa

### Category

Primary antibody

### Applications

ELISA,WB,IP

### Cross-Reactivity

Human

## Background

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.

## Recommended Dilutions

WB 1:500 - 1:2000

IP 0.5µg-4µg antibody for  
200µg-400µg extracts of  
whole cells

## Immunogen Information

### Gene ID

250

### Swiss Prot

P05187

### Immunogen

Recombinant fusion protein containing a sequence corresponding to amino acids 260-460 of human Placental alkaline phosphatase (PLAP) (NP\_001623.3).

### Synonyms

ALP; IAP; ALPI; PALP; PLAP; PLAP-1; Placental alkaline phosphatase (PLAP)

## Contact

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## Product Information

### Source

Rabbit

### Isotype

IgG

### Purification

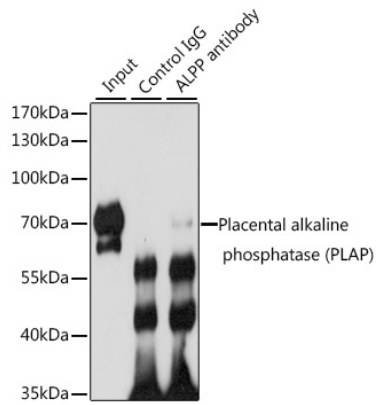
Affinity purification

### Storage

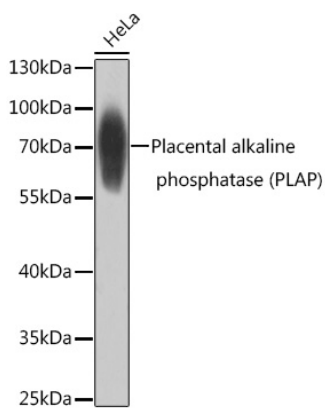
Store at -20°C. Avoid freeze / thaw cycles.

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

## Validation Data



Immunoprecipitation analysis of 200 µg extracts of HeLa cells, using 3 µg Placental alkaline phosphatase (PLAP) antibody (A21424). Western blot was performed from the immunoprecipitate using Placental alkaline phosphatase (PLAP) antibody (A21424) at a dilution of 1:1000.



Western blot analysis of lysates from HeLa cells, using Placental alkaline phosphatase (PLAP) Rabbit pAb (A21424) 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.