

# Placental alkaline phosphatase (PLAP) Rabbit pAb

Catalog No.: A6353

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## Basic Information

**Observed MW**

70kDa

**Calculated MW**

58kDa

**Category**

Primary antibody

**Applications**

ELISA, WB, IHC-P, 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

<b>WB</b>	1:500 - 1:2000
<b>IHC-P</b>	1:50 - 1:200
<b>IP</b>	1:50 - 1:100

## 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

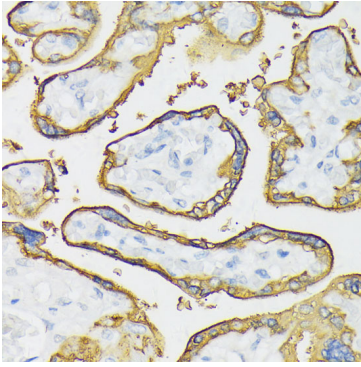
**Storage**

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

Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH 7.3.

## Validation Data

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Immunohistochemistry analysis of paraffin-embedded Human placenta using Placental alkaline phosphatase (PLAP) Rabbit pAb (A6353) 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.