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# Anti-ALPP Picoband Antibody

**Catalog # ABO10209**

## Specification

### Anti-ALPP Picoband Antibody - Product Information

| | |
|---|---|
| Application | **WB, IHC** |
| Primary Accession | P05187 |
| Host | **Rabbit** |
| Reactivity | **Human** |
| Clonality | **Polyclonal** |
| Format | **Lyophilized** |

**Description**
Rabbit IgG polyclonal antibody for Alkaline phosphatase, placental type(ALPP) detection. Tested with WB, IHC-P in Human.

**Reconstitution**
Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

### Anti-ALPP Picoband Antibody - Additional Information

**Gene ID** 250

**Other Names**
Alkaline phosphatase, placental type, 3.1.3.1, Alkaline phosphatase Regan isozyme, Placental alkaline phosphatase 1, PLAP-1, ALPP, PLAP

**Calculated MW**
57954 MW KDa

**Application Details**
Immunohistochemistry(Paraffin-embedded Section), 0.5-1 µg/ml, Human, By Heat<br><br>Western blot, 0.1-0.5 µg/ml, Human<br>

**Subcellular Localization**
Cell membrane; Lipid-anchor, GPI-anchor.

**Tissue Specificity**
Detected in placenta (at protein level). .

**Protein Name**
Alkaline phosphatase, placental type

**Contents**
Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3.

**Immunogen**
A synthetic peptide corresponding to a sequence at the C-terminus of human ALPP (403-433aa KARDRKAYTVLLYGNGPGYVLKDGARPDVTE).

**Purification**
Immunogen affinity purified.

**Cross Reactivity**
No cross reactivity with other proteins

| | |
|---|---|
| Storage | **At -20˚C for one year. After r˚Constitution, at 4˚C for one month. It˚Can also be aliquotted and stored frozen at -20˚C for a longer time.Avoid repeated freezing and thawing.** |

## Anti-ALPP Picoband Antibody - Protein Information

**Name** ALPP (HGNC:439)

**Function**
Alkaline phosphatase that can hydrolyze various phosphate compounds.

**Cellular Location**
Cell membrane; Lipid-anchor, GPI-anchor

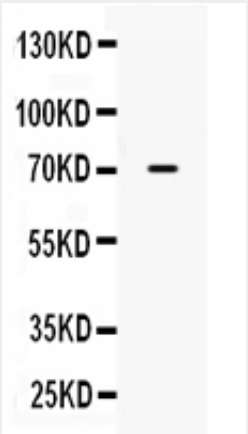
**Tissue Location**
Detected in placenta (at protein level).

## Anti-ALPP Picoband Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

## Anti-ALPP Picoband Antibody - Images



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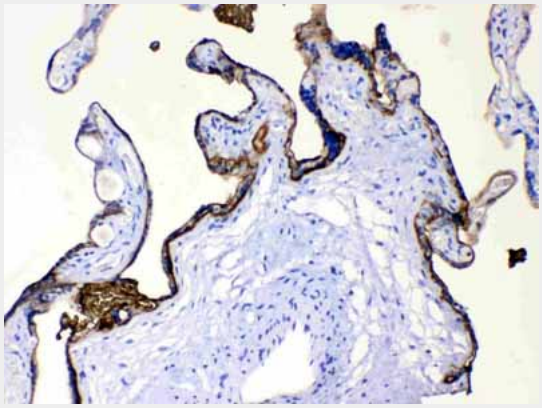
Western blot analysis of ALPP expression in human placenta extract (lane 1). ALPP at 70KD was detected using rabbit anti- ALPP Antigen Affinity purified polyclonal antibody (Catalog # ABO10209) at 0.5 Î¼g/mL. The blot was developed using chemiluminescence (ECL) method .



ALPP was detected in paraffin-embedded sections of human placenta tissues using rabbit anti-ALPP Antigen Affinity purified polyclonal antibody (Catalog # ABO10209) at 1 Î¼g/mL. The immunohistochemical section was developed using SABC method .

**Anti-ALPP Picoband Antibody - Background**

Alkaline phosphatase, placental type also known as placental alkaline phosphatase (PLAP) is an allosteric enzyme that in humans is encoded by the ALPP gene. 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. The 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.