

Anti-ALPP Picoband Antibody

Catalog # ABO10209

Product Information

Application	WB, IHC-P
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.

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
Application Details	Immunohistochemistry(Paraffin-embedded Section), 0.5-1 µg/ml, Human, By Heat Western blot, 0.1-0.5 µg/ml, Human
Subcellular Localization	Cell membrane; Lipid-anchor, GPI-anchor.
Tissue Specificity	Detected in placenta (at protein level). .
Source	Eukaryota
Protein Name	Alkaline phosphatase, placental type
Contents	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.05mg NaN ₃ .
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 reconstitution, 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.

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).

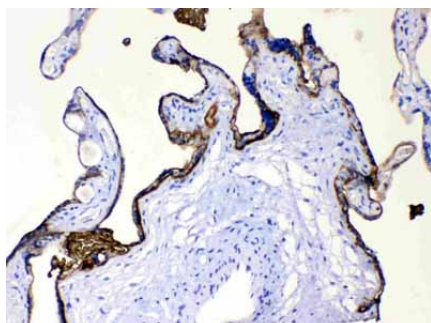
Background

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.

Images



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 µg/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 µg/mL. The immunohistochemical section was developed using SABC method .

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.