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# ALPP Antibody (N-term)

Mouse Monoclonal Antibody (Mab)
Catalog # AM2022b

## Product Information

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| **Application** | WB, E |
| **Primary Accession** | P05187 |
| **Other Accession** | P10696, NP_001623.3 |
| **Reactivity** | Human |
| **Host** | Mouse |
| **Clonality** | Monoclonal |
| **Isotype** | IgG1 |
| **Clone Names** | 421CT8.1.1 |
| **Calculated MW** | 57954 |
| **Antigen Region** | 56-83 |

## Additional Information

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| **Gene ID** | 250 |
| **Other Names** | Alkaline phosphatase, placental type, Alkaline phosphatase Regan isozyme, Placental alkaline phosphatase 1, PLAP-1, ALPP, PLAP |
| **Target/Specificity** | This ALPP antibody is generated from mice immunized with a KLH conjugated synthetic peptide between 56-83 amino acids from the N-terminal region of human ALPP. |
| **Dilution** | WB~~1:500~1000 E~~Use at an assay dependent concentration. |
| **Format** | Purified monoclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein G column, followed by dialysis against PBS. |
| **Storage** | Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles. |
| **Precautions** | ALPP Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures. |

## Protein Information

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| **Name** | ALPP ( HGNC:439) |
| **Function** | Alkaline phosphatase that can hydrolyze various phosphate compounds. |
| **Cellular Location** | Cell membrane; Lipid-anchor, GPI-anchor |

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

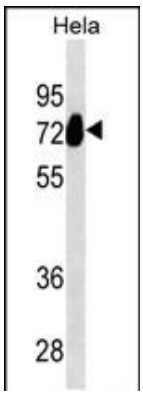
## Background

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, also referred to as the heat stable form, that is expressed primarily in the placenta although it is closely related to the intestinal form of the enzyme as well as to the placental-like form. The coding sequence for this form of alkaline phosphatase is unique in that the 3' untranslated region contains multiple copies of an Alu family repeat. In addition, this gene is polymorphic and three common alleles (type 1, type 2 and type 3) for this form of alkaline phosphatase have been well characterized.

## References

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Wang, F., et al. Am. J. Surg. Pathol. 33(10):1529-1539(2009)
Estrada, K., et al. Hum. Mol. Genet. 18(18):3516-3524(2009)
Zhu, J.F., et al. Zhonghua Wai Ke Za Zhi 47(5):381-384(2009)
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## Images




ALPP Antibody (N-term) (Cat. #AM2022b) western blot analysis in Hela cell line lysates (35µg/lane).This demonstrates the ALPP antibody detected the ALPP protein (arrow).

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