

ALPP Antibody (Center) Blocking peptide
Synthetic peptide
Catalog # BP13553c

Specification

ALPP Antibody (Center) Blocking peptide - Product Information

Primary Accession [P05187](#)

ALPP Antibody (Center) Blocking peptide - Additional Information

Gene ID 250

Other Names

Alkaline phosphatase, placental type, Alkaline phosphatase Regan isozyme, Placental alkaline phosphatase 1, PLAP-1, ALPP, PLAP

Target/Specificity

The synthetic peptide sequence used to generate the antibody AP13553c was selected from the Center region of ALPP. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

ALPP Antibody (Center) Blocking peptide - 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).

ALPP Antibody (Center) Blocking peptide - Protocols

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

- [Blocking Peptides](#)

ALPP Antibody (Center) Blocking peptide - Images

ALPP Antibody (Center) Blocking peptide - 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.

ALPP Antibody (Center) Blocking peptide - References

Stec, B., et al. Acta Crystallogr. Sect. F Struct. Biol. Cryst. Commun. 66 (PT 8), 866-870 (2010)
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) Roberson, J.R., et al. Pediatr Blood Cancer 51(6):840-842(2008)