10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

ALPP Antibody (Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP13553c

Product Information

Application	WB, IHC-P, E
Primary Accession	P05187
Other Accession	P10696, NP_001623.3
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB33849
Calculated MW	57954
Antigen Region	282-309

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	This ALPP antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 282-309 amino acids from the Central region of human ALPP.
Dilution	WB~~1:1000 IHC-P~~1:100~500 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
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 (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

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).

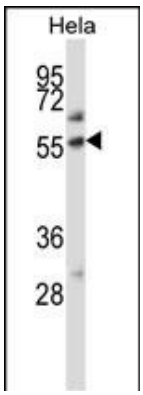
Background

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.

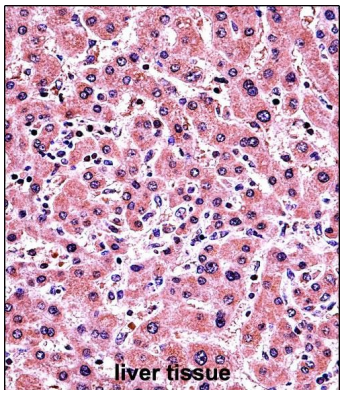
References

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)

Images



ALPP Antibody (Center) (Cat. #AP13553c) western blot analysis in Hela cell line lysates (35ug/lane).This demonstrates the ALPP antibody detected the ALPP protein (arrow).



ALPP Antibody (Center) (Cat. #AP13553c)immunohistochemistry analysis in formalin fixed and paraffin embedded human liver tissue followed by peroxidase conjugation of the secondary antibody and DAB staining.This data demonstrates the use of ALPP Antibody (Center) for immunohistochemistry. Clinical relevance has not been evaluated.

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