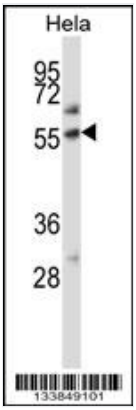
ALPP Antibody – Rabbit Polyclonal

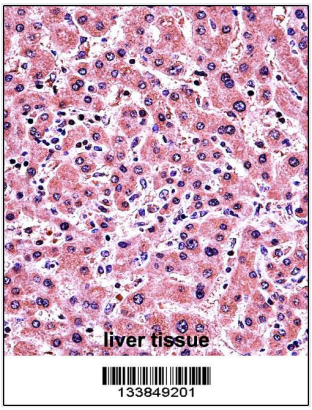
PRODUCT OVERVIEW

Product Name	ALPP, Polyclonal Antibody
Full Product Name	ALPP Antibody (Center)
Product Gene Name	anti-ALPP antibody
Product Synonym Names	Alkaline phosphatase; placental type; Alkaline phosphatase Regan isozyme; Placental alkaline phosphatase 1; PLAP-1; ALPP; PLAP
Clonality	Polyclonal
Isotype	Rabbit Ig
Host	Rabbit
Species Reactivity	Human
Form/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.
Purity/Purification	Peptide Affinity Purified Rabbit Polyclonal Antibody (Pab)
Concentration	Vial Concentration: 0.29 (lot specific)
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.
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C in small aliquots to prevent freeze-thaw cycles.
Antibody/Peptide Pairs	ALPP peptide (MBS9220001) is used for blocking the activity of ALPP antibody (MBS9209597)
Molecular Weight	57954
Immunogen Sequence Positions	282-309
OMIM	171800
3D Structure	ModBase 3D Structure for P05187
Antigen Type	Synthetic Peptide
Antigen Source	HUMAN
Product Categories/Family for anti-ALPP antibody	Cancer; Cell Biology; Immunology
Applications Tested/Suitable for anti-ALPP antibody	Western Blot (WB), ELISA (EIA), Immunohistochemistry (IHC)
Application Notes for anti-ALPP antibody	WB~~1:1000

Related Product Information for anti-ALPP antibody	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.
Product References and Citations for anti-ALPP antibody	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)
Other Notes	Small volumes of anti-ALPP antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for ALPP purchase	MBS9209597 is an antibody targeting ALPP. Also known as ALPP Antibody (Center). Reactive in Human. Host: Rabbit.



Western Blot (WB) of anti-ALPP antibody
ALPP Antibody (Center) western blot analysis in Hela cell line lysates (35ug/lane).This demonstrates the ALPP antibody detected the ALPP protein (arrow).



Immunohistochemistry (IHC) of anti-ALPP antibody
ALPP Antibody (Center) 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.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for ALPP. It may not necessarily be applicable to this product.

NCBI GI #	94721246
NCBI GeneID	250
NCBI Accession #	NP_001623.3
UniProt Primary Accession #	P05187
UniProt Secondary Accession #	P05188; P06861; Q53S78; Q96DB7
UniProt Related Accession #	P05187
GenBank Nucleotide #	NM_001632.4

NCBI Official Full Name	alkaline phosphatase, placental type preproprotein
NCBI Official Synonym Full Names	alkaline phosphatase, placental
NCBI Official Symbol	ALPP
NCBI Official Synonym Symbols	ALP; PALP; PLAP; PLAP-1
UniProt Protein Name	Alkaline phosphatase, placental type
UniProt Synonym Protein Names	Alkaline phosphatase Regan isozyme; Placental alkaline phosphatase 1; PLAP-1
Protein Family	Alkaline phosphatase
UniProt Gene Name	ALPP
UniProt Synonym Gene Names	PLAP; PLAP-1
UniProt Entry Name	PPB1_HUMAN
NCBI Protein Information	alkaline phosphatase, placental type
NCBI Summary for ALPP	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. [provided by RefSeq, Jan 2015]
UniProt Comments for ALPP	ALPP: 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. [provided by RefSeq, Jul 2008] Protein type: Membrane protein, GPI anchor; Cofactor and Vitamin Metabolism - folate biosynthesis; Cell surface; Motility/polarity/chemotaxis; Membrane protein, integral; EC 3.1.3.1; Phosphatase (non-protein) Chromosomal Location of Human Ortholog: 2q37 Cellular Component: cell surface; plasma membrane; integral to membrane Molecular Function: zinc ion binding; alkaline phosphatase activity; magnesium ion binding Biological Process: dephosphorylation
Research Articles on ALPP	**1.** term placental explants, but not their conditioned medium, can de-phosphorylate IGFBP-1 through the action of placental alkaline phosphatase
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Product Note	Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details.

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