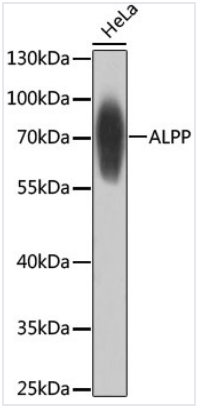
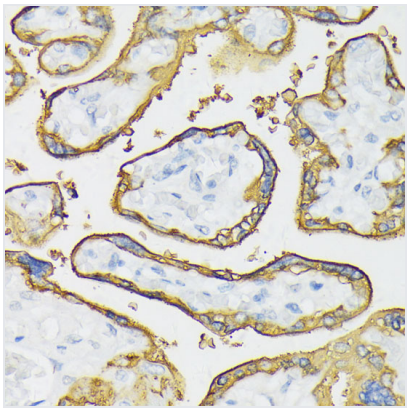
ALPP Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	ALPP, Polyclonal Antibody
Full Product Name	ALPP Rabbit Polyclonal Antibody
Product Gene Name	anti-ALPP antibody
Product Synonym Names	ALPP; ALP; PALP; PLAP; PLAP-1; placental
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH7.3.
Purity/Purification	Affinity purification
Preparation and Storage	Store at -20 degree C. Avoid freeze/thaw cycles.
Molecular Weight	57,954 Da
OMIM	171800
3D Structure	ModBase 3D Structure for P05187
Immunogen	Recombinant fusion protein of human ALPP (NP_001623.3).
Product Categories/Family for anti-ALPP antibody	Primary Antibody
Applications Tested/Suitable for anti-ALPP antibody	Western Blot (WB), Immunohistochemistry (IHC)
Application Notes for anti-ALPP antibody	WB: 1:500-1:2000 IHC: 1:50-1:200 IP: 1:50-1:100
Related Product Information for anti-ALPP antibody	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.
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	MBS9466045 is an antibody targeting ALPP. Also known as ALPP Rabbit Polyclonal Antibody. Reactive in Human. Host: Rabbit.



Western Blot (WB) of anti-ALPP antibody
Western blot analysis of extracts of HeLa cells, using ALPP at 1:1000 dilution.



Immunohistochemistry (IHC) of anti-ALPP antibody
Immunohistochemistry of paraffin-embedded human placenta using ALPP at dilution of 1:100 (40x lens).

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_001632.3
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
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; Regan isozyme; glycerophosphatase; alkaline phosphomonoesterase; placental alkaline phosphatase 1; alkaline phosphatase Regan isozyme
NCBI Summary for 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]

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: Cell surface; Membrane protein, integral; Cofactor and Vitamin Metabolism - folate biosynthesis; Phosphatase (non-protein); Motility/polarity/chemotaxis; Membrane protein, GPI anchor; EC 3.1.3.1 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.** The objective of the following study was to record the specificity and sensitivity of alpha5(IV) loss, smoothelin expression and PLAP expression as markers of gastrointestinal smooth muscle neoplasms
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
Disclaimer	While every efforts were made to ensure the accuracy of the information provided in this datasheet, MyBioSource will not be liable for any omissions or errors contained herein. MyBioSource reserves the right to make changes to this datasheet at any time without prior notice. It is the responsibility of the customer to report product performance issues to MyBioSource within 30 days of receipt of the product. Please visit our Terms & Conditions page for more information.
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.

For Research Use Only. Not for use in diagnostic or therapeutic procedures.

MyBioSource | Tel: +1.858.633.0165 | Fax: +1.858.633.0166 | mybiosource.com/contact-us
Online datasheet: https://www.mybiosource.com/polyclonal-human-antibody/alpp/9466045