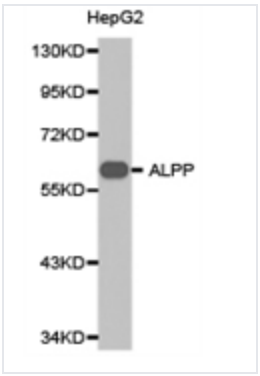
ALPP Antibody – Rabbit

PRODUCT OVERVIEW

Product Name	ALPP, Antibody
Full Product Name	ALPP Antibody
Product Gene Name	anti-ALPP antibody
Product Synonym Names	ALP; FLJ61142; PALP; PLAP
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Purity/Purification	Affinity purification
Preparation and Storage	Store at-20 degree C or-80 degree C. Avoid freeze/thaw cycles.
Molecular Weight	58kDa
OMIM	171800
3D Structure	ModBase 3D Structure for P05187
Immunogen	Fusion protein of human ALPP
Storage Buffer	PBS with 0.02% sodium azide, 50% glycerol, pH7.3.
Product Categories/Family for anti-ALPP antibody	Autophagy antibody; Cancer; Cardiovascular; Cell Biology; Epigenetics & Nuclear Signaling; Developmental Biologys; Immunology; Drug Discovery Products; Metabolism; Neuroscience; Signal Transduction; Stem Cells
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-ALPP antibody	Western Blot (WB), Immunohistochemistry (IHC)
Application Notes for anti-ALPP antibody	WB: 1:500-1:1000 IHC: 1:50-1:100
Related Product Information for anti-ALPP antibody	Alkaline phosphatases (AP) are glycosyl-phosphatidylinositol (GPI)-anchored, dimeric, Zn2+-metallated glycoproteins that catalyze the hydrolysis of phosphomonoesters into an inorganic phosphate and an alcohol. Placental alkaline phosphatase (also known as PLAP, ALPP, PALP, placental ALP-1 or Regan isozyme) is a 530 amino acid, tissue-specific AP that is expressed in the placenta, the serum of pregnant women and ectopically expressed in various cancers, including those of the ovary and testis. PLAP may assist in guiding migratory cells and transporting specific molecules, such as fatty acids and immunoglobulins, across the plasma membrane. The three tissue-specific APs identified in human, PLAP, germ cell AP (GCAP) and intestinal AP, are 90-98% homologous and their genes are clustered on chromosome 2q.
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	MBS8502001 is an antibody targeting ALPP. Also known as ALPP Antibody. Reactive in Human, Mouse, Rat. Host: Rabbit.



Testing Data of anti-ALPP antibody
Western blot analysis of extracts of HepG2 cell line, using ALPP antibody.

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
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	MiscellaneousIn most mammals there are four different isozymes: placental, placental-like, intestinal and tissue non-specific (liver/bone/kidney).
Research Articles on ALPP	**1.** Concentrations of PLAP were elevated in gingival crevicular fluid of patients with pre-eclampsia.

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