

Rabbit anti-Human Alkaline Phosphatase/ALPL Monoclonal Antibody | anti-ALPL antibody

Recombinant Anti-Alkaline Phosphatase/ALPL Antibody, Rabbit Monoclonal

CATALOG # AAA254207	HOST Rabbit	REACTIVITY Human	APPLICATIONS Western Blot
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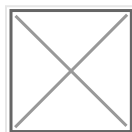
PRODUCT SYNONYMS

Alkaline Phosphatase/ALPL; Monoclonal Antibody; Recombinant Anti-Alkaline Phosphatase/ALPL Antibody; Rabbit Monoclonal; Alkaline Phosphatase/ALPL Antibody; Rabbit MAb; alkaline phosphatase; liver/bone/kidney; Anti-AP-TNAP Antibody; Anti-APTNP Antibody; Anti-HOPS Antibody; Anti-TNAP Antibody; Anti-TNSALP Antibody; anti-ALPL antibody

PRODUCT SPECIFICATIONS

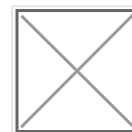
Host	Rabbit
Reactivity	Human
Clonality	Monoclonal
Isotype	Rabbit IgG
Clone Number	077
Specificity	Human Alkaline Phosphatase/ALPL
Purity/Purification	Protein A
Form/Format	Liquid; 0.2um filtered solution in PBS
Applicable Applications for anti-ALPL antibody	WB (Western Blot)
Antibody Type	Recombinant Antibody
Immunogen	A synthetic peptide corresponding to the center region of the Human Alkaline Phosphatase/ALPL
Conjugation	Unconjugated
Preparation	This antibody was obtained from a rabbit immunized with a synthetic peptide corresponding to the center region of the Human Alkaline Phosphatase/ALPL. The IgG fraction of the cell culture supernatant was purified by Protein A affinity chromatography.
Preparation and Storage	This antibody can be stored at 2-8 degree C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20 degree C to -80 degree C. Preservative-Free. Avoid repeated freeze-thaw cycles.

IMAGES



WB (Western Blot)

Anti-ALPL rabbit monoclonal antibody at 1:500 dilution Lane A: ALPL konckout HeLa Whole Cell Lysate Lane B: HeLa Whole Cell Lysate Lysates/proteins at 20 ug per lane. Secondary Goat Anti-Rabbit IgG (H+L)/HRP at 1/10000 dilution. Developed using the ECL technique. Performed under reducing conditions. Predicted band size: 57 kDa Observed band size: 95 kDa



WB (Western Blot)

Anti-ALPL rabbit monoclonal antibody at 1:500 dilution Lane A: HeLa Whole Cell Lysate Lysates/proteins at 30 ug per lane. Secondary Goat Anti-Rabbit IgG H&L (Dylight800) at 1/10000 dilution. Developed using the Odyssey technique. Performed under reducing conditions. Predicted band size: 57 kDa Observed band size: 95 kDa

ADDITIONAL INFORMATION

Related Product Information for anti-ALPL antibody	Alkaline phosphatase (ALPL) is a hydrolase enzyme responsible for removing phosphate groups from many types of molecules, including nucleotides, proteins, and alkaloids. The process of removing the phosphate group is called dephosphorylation. As the name suggests, alkaline phosphatases are most effective in an alkaline environment. It is sometimes used synonymously as basic phosphatase. Alkaline phosphatases (APs) are ubiquitous in many species, from bacteria to human. Four genes encode AP isoenzymes in humans and rodents. Three AP genes are expressed in a tissue-specific manner (i.e., placental, embryonic, and intestinal AP isoenzymes). Expression of the fourth AP gene is nonspecific to a single tissue and is especially abundant in bone, liver, and kidney. This isoenzyme is also called tissue-nonspecific alkaline phosphatase (TNAP). The enzyme tissue non-specific alkaline phosphatase (TNAP) belongs to the ectophosphatase family. TNAP is present in large amounts in bone in which it plays a role in mineralization.
Product Categories/Family for anti-ALPL antibody	Phosphatases and Regulators
References	Brun-Heath I, et al. (2011) Differential expression of the bone and the liver tissue non-specific alkaline phosphatase isoforms in brain tissues. Cell Tissue Res. 343(3): 521-36. Whyte MP, et al. (1995) Alkaline phosphatase: placental and tissue-non-specific isoenzymes hydrolyze phosphoethanolamine, inorganic pyrophosphate, and pyridoxal 5-phosphate. J Clin Invest. 95: 1440-5. Whyte MP. (1994) Hypophosphatasia and the role of alkaline phosphatase in skeletal mineralization. Endocrinol Rev. 4: 439-61. Weinreb M, et al. (1990) Different pattern of alkaline phosphatase, osteopontin and osteocalcin expression in developing rat bone visualized by in situ hybridization. J Bone Miner Res. 5: 831-42.

NCBI AND UNIPROT INFORMATION

NCBI GI #	116734717
NCBI GeneID	249
NCBI Accession #	NP_000469.3
NCBI GenBank Nucleotide #	NM_000478.4
UniProt Accession #	P05186; O75090; Q2TAI7; Q59EJ7; Q5BKZ5; Q5VTG5; Q6NZI8; Q8WU32; A1A4E7; B2RMP8; B7Z387; B7Z4Y6
Molecular Weight	57kDa
NCBI Official Full Name	alkaline phosphatase, tissue-nonspecific isozyme isoform 1
NCBI Official Synonym Full Names	alkaline phosphatase, liver/bone/kidney
NCBI Official Symbol	ALPL
NCBI Official Synonym Symbols	HOPS; TNAP; APTNAP; TNSALP; AP-TNAP
NCBI Protein Information	alkaline phosphatase, tissue-nonspecific isozyme; glycerophosphatase; tissue-nonspecific ALP; alkaline phosphomonoesterase; liver/bone/kidney-type alkaline phosphatase; alkaline phosphatase liver/bone/kidney isozyme
UniProt Protein Name	Alkaline phosphatase, tissue-nonspecific isozyme
UniProt Gene Name	ALPL
UniProt Synonym Gene Names	AP-TNAP; TNSALP
UniProt Entry Name	PPBT_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/monoclonal/alkaline-phosphatase-alpl-antibody-clone-077-western-blot-elisa/254207>