

Anti-Alkaline Phosphatase/ALPL Antibody Picoband®

Catalog Number: PA1004-2

About ALPL

Alkaline phosphatase (ALPL) removes phosphate groups from the 5' end of DNA and RNA, and from proteins, at high pH. Most mammals have 4 different isozymes: placental, placental like, intestinal and non tissue specific (found in liver, kidney and bone). Tissues with particularly high concentrations of ALP include the liver, bile ducts, placenta, and bone. ALPL is the alkaline phosphatase of skin fibroblasts, the tissue-nonspecific type, and that it is active toward millimolar concentrations of the putative natural substrates phosphoethanolamine (PEA) and pyridoxal-5-prime-phosphate (PLP). ALPL gene exists in single copy in the haploid genome and is composed of 12 exons distributed over more than 50 kb. Damaged or diseased tissue releases enzymes into the blood, so serum ALP measurements can be abnormal in many conditions, including bone disease and liver disease.

Overview

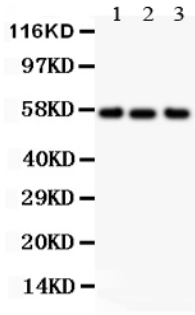
Product Name	Anti-Alkaline Phosphatase/ALPL Antibody Picoband®
Reactive Species	Human
Description	Boster Bio Anti-Alkaline Phosphatase/ALPL Antibody catalog # PA1004-2. Tested in WB applications. This antibody reacts with Human. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Application	WB
Clonality	Polyclonal
Formulation	Each vial contains antibody formulated with stabilizing components, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.05mg Thimerosal, 0.05mg NaN ₃ . *This antibody is supplied in a stabilized formulation. Compatibility with conjugation reactions depends on the chemistry of the conjugation method used. For conjugation methods that are not compatible with the stabilizing components present in this formulation, a carrier-free antibody format is required.
Storage Instructions	Store at -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freeze-thaw cycles.
Host	Rabbit
Uniprot ID	P05186

Technical Details

Immunogen	A synthetic peptide corresponding to a sequence at the N-terminus of human Alkaline Phosphatase, different from the related mouse and rat sequences by three amino acids.
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western

	blot, and HRP Conjugated anti-Rabbit IgG Super Vision Assay Kit (SV0002-1) for IHC(P) and ICC.
Cross Reactivity	No cross-reactivity with other proteins.
Isotype	Rabbit IgG
Form	Lyophilized
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.
Purification	Immunogen affinity purified.
Suggested Dilutions	Western blot, 0.1-0.5ug/ml, Human

Anti-Alkaline Phosphatase/ALPL Antibody Picoband® (PA1004-2) Images



All lanes: Anti ALPL (PA1004-2) at 0.5ug/ml
Lane 1: Human Placenta Tissue Lysate at 50ug
Lane 2: HT1080 Whole Cell Lysate at 40ug
Lane 3: JURKAT Whole Cell Lysate at 40ug
Predicted bind size: 57KD
Observed bind size: 57KD

19 Publications Citing This Product

1. PubMed ID: 20213193, Song Wt, Lu Gh, Wang C, Zhang Hz, Xu S, Qin J. Bull Environ Contam Toxicol. 2010 Apr;84(4):406-12. Doi: 10.1007/S00128-010-9944-9. Epub 2010 Mar 6. Study On Environmental Estrogen Pollution In Yangtze River (Nanjing Section) By An In Vivo Bioassay.
2. PubMed ID: 25380520, Guo P, Shi Zl, Liu A, Lin T, Bi Fg, Shi Mm, Yan Sg. Int J Mol Sci. 2014 Nov 5;15(11):20117-33. Doi: 10.3390/Ijms151120117. Cartilage Oligomeric Matrix Protein Gene Multilayers Inhibit Osteogenic Differentiation And Promote Chondrogenic Differentia...
3. PubMed ID: 22730054, Zhang Y, Yang J, Jiang S, Fang C, Xiong L, Cheng H, Xia Y. J Clin Immunol. 2012 Dec;32(6):1270-8. Doi: 10.1007/S10875-012-9724-X. Epub 2012 Jun 24. The Lupus-Derived Anti-Double-Stranded Dna Igg Contributes To Myofibroblast-Like Phenotype In Mesan...

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