

Anti-Alkaline Phosphatase/ALPL Antibody Picoband®

Catalog Number: PA1004-1

About Alpl

Alkaline phosphatase, tissue-nonspecific isozyme is an enzyme that in humans is encoded by the ALPL gene. 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. Liver/bone/kidney alkaline phosphatase, also known as tissue-nonspecific alkaline phosphatase, acts physiologically as a lipid-anchored phosphoethanolamine (PEA) and pyridoxal-5-prime-phosphate (PLP) ectophosphatase. Mice that lack a functional form of this enzyme show normal skeletal development. This enzyme has been linked directly to a disorder known as hypophosphatasia, a disorder that is characterized by hypercalcemia and includes skeletal defects.

Overview

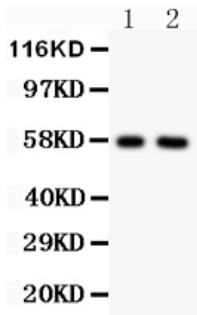
Product Name	Anti-Alkaline Phosphatase/ALPL Antibody Picoband®
Reactive Species	Mouse, Rat
Description	Boster Bio Anti-Alkaline Phosphatase/ALPL Antibody catalog # PA1004-1. Tested in WB applications. This antibody reacts with Mouse, Rat. The brand Picoband indicates this is a premium antibody that guarantees 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	P08289

Technical Details

Immunogen	A synthetic peptide corresponding to a sequence at the N-terminus of rat Alkaline Phosphatase, different from the related mouse sequence by one amino acid.
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, Rat, Mouse

Anti-Alkaline Phosphatase/ALPL Antibody Picoband® (PA1004-1) Images



All lanes: Anti ALPL (PA1004-1) at 0.5ug/ml
Lane 1: Rat Cardiac Muscle Tissue Lysate at 50ug
Lane 2: Rat Brain Tissue Lysate at 50ug
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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