BOSTER BIOLOGICAL TECHNOLOGY
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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.

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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 Na2HPO4, 0.05mg Thimerosal, 0.05mg NaN3. *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

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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

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



All lanes: Anti ALPL (PA1004-1) at 0.5ug/mlLane 1: Rat Cardiac Muscle Tissue Lysate at 50ugLane 2: Rat Brain Tissue Lysate at 50ugPredicted bind size: 57KDObserved bind size: 57KD

20 Publications Citing This Product

1. PubMed ID: 23219582, Feng L, Zhu M, Zhang M, Jia X, Cheng X, Ding S, Zhu Q. Int Immunopharmacol. 2013 Feb;15(2):206-16. Doi: 10.1016/J.Intimp.2012.11.015. Epub 2012 Dec 5. Amelioration Of Compound 4,4'-Diphenylmethane-Bis(Methyl)Carbamate On High Mobility Group Box1-M...

2. PubMed ID: 25109926, Xu F, Dong Y, Huang X, Li M, Qin L, Ren Y, Guo F, Chen A, Huang S. Mol Med Rep. 2014 Oct;10(4):1935-41. Doi: 10.3892/Mmr.2014.2430. Epub 2014 Jul 30. Decreased Osteoclastogenesis, Osteoblastogenesis And Low Bone Mass In A Mouse Model Of Type 2 Dia...

3. 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.

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