Product datasheet Anti-ALPL Antibody Catalog Number: A01008



Building C21, 3rd to 5th Floors, Optics Valley Biopharmaceutical Accelerator, East Lake High-Tech Development Zone, Wuhan.

Web: www.boster.com Phone: 027-67845390/1/2 Email: boster@boster.com

Basic Information	
Product Name	Anti-ALPL Antibody
Gene Name	ALPL
Source	Rabbit
Clonality	Polyclonal
Isotype	IgG
Species Reactivity	human, mouse, rat
Tested Application	WB, ICC/IF, ELISA
Contents	500 ug/ml antibody with PBS, 0.02% NaN3, 1 mg/ml BSA and 50% glycerol.
lmmunogen	E.coli-derived human Alkaline phosphatase/ALPL recombinant protein (Position: K229-H482).
Concentration	500 ug/ml
Purification	Immunogen affinity purified.
Observed MW	57/80 kDa
Dilution Ratios	Western blot (WB): 1:500-2000 Immunocytochemistry/Immunofluorescence (ICC/IF):1:50-400 Enzyme linked immunosorbent assay (ELISA): 1:100-1000

Storage

12 months from date of receipt, -20°C as supplied.

Background Information

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.

Reference

Anti-ALPL Antibody被引用在4文献中。

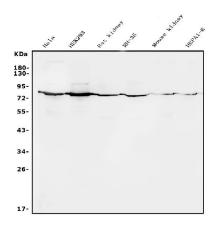


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Selected Validation Data



Western blot analysis of ALPL using anti-ALPL antibody (A01008). The sample well of each lane was loaded with 30 ug of sample under reducing conditions.

Lane 1: Human Hela whole cell lysates,

Lane 2: Human HEK293 whole cell lysates,

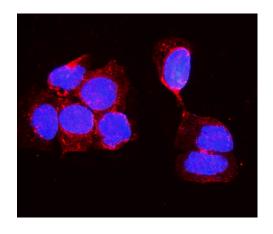
Lane 3: rat kidney tissue lysates,

Lane 4: Rat RH35 whole cell lysates,

Lane 5: Mouse kidney tissue lysates,

Lane 6: Mouse HEPA1-6 whole cell lysates.

After electrophoresis, proteins were transferred to a membrane. Then the membrane was incubated with rabbit anti-ALPL antigen affinity purified polyclonal antibody (A01008) at a dilution of 1:1000 and probed with a goat anti-rabbit IgG-HRP secondary antibody (Catalog # BA1054). The signal is developed using ECL Plus Western Blotting Substrate (Catalog # AR1197). A specific band was detected for ALPL at approximately 57/80 kDa. The expected band size for ALPL is at 57 kDa.



IF analysis of ALPL using anti-ALPL antibody (A01008).

ALPL was detected in an immunocytochemical section of A431 cells. The section was incubated with rabbit anti-ALPL Antibody (A01008) at a dilution of 1:100. Dylight594-conjugated Anti-rabbit IgG Secondary Antibody (red)(Catalog#BA1142) was used as secondary antibody. The section was counterstained with DAPI (Catalog # AR1176) (Blue).