

## 39-2014: Anti-Alkaline Phosphatase Polyclonal Antibody

<b>Clonality :</b>	Polyclonal
<b>Application :</b>	WB
<b>Reactivity :</b>	Rat
<b>Gene :</b>	Alpl
<b>Gene ID :</b>	25586
<b>Uniprot ID :</b>	P08289
<b>Format :</b>	Lyophilized
<b>Alternative Name :</b>	Alkaline phosphatase, tissue-nonspecific isozyme; AP-TNAP; TNSALP; 3.1.3.1; Alkaline phosphatase liver/bone/kidney isozyme; Alpl
<b>Isotype :</b>	Rabbit IgG
<b>Immunogen Information :</b>	A synthetic peptide corresponding to a sequence at the N-terminus of rat Alkaline Phosphatase(18-32aa, FVPEKEKDPSYWRQQ), different from the related mouse sequence by one amino acid.

### Description

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.

### Product Info

<b>Amount :</b>	100 µg/vial
<b>Purification :</b>	Immunogen affinity purified.
<b>Content :</b>	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg Thimerosal, 0.05mg NaN3. Reconstitute : Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
<b>Storage condition :</b>	At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for a longer time. Avoid repeated freezing and thawing.

### Application Note

Western blot : 0.1-0.5 µg/ml

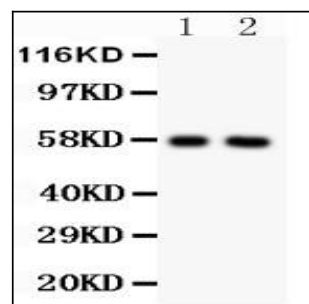


Figure 1: All Lanes: Anti ALPL(39-2014) at 0.5ug/ml. Lane 1: Rat Cardiac Muscle Tissue Lysate at 50ug, Lane 2: Rat Brain Tissue Lysate at 50ug. Predicted band size: 57 kDa. Observed band size: 57 kDa.