

**PAB472Hu01**

**Polyclonal Antibody to Alkaline Phosphatase (ALP)**

**Organism Species: Homo sapiens (Human)**

***Instruction manual***

FOR IN VITRO USE AND RESEARCH USE ONLY  
NOT FOR USE IN CLINICAL DIAGNOSTIC PROCEDURES

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9th Edition (Revised in Jul, 2013)

## **[ PRODUCT INFORMATION ]**

**Immunogen:** ALP

**Clonality:** Polyclonal

**Host:** Rabbit

**Immunoglobulin Type:** IgG

**Purification:** Affinity Chromatography.

**Applications:** WB, ICC, IHC-P, IHC-F, ELISA

**Concentration:** 200µg/mL

**UOM:** 100µg

## **[ IMMUNOGEN INFORMATION ]**

**Immunogen:** Native Protein ALP.

**Accession No.:** NPB472Hu01

## **[ RELEVANCE ]**

Alkaline phosphatase (ALP, ALKP, ALPase, Alk Phos) is a hydrolase enzyme responsible for removing phosphate groups from many types of molecules, including nucleotides, proteins, and alkaloids. In Gram-negative bacteria, alkaline phosphatase is located in the periplasmic space, external to the cell membrane. Since this space is much more subject to environmental variation than the actual interior of the cell, bacterial alkaline phosphatase is comparatively resistant to inactivation, denaturation, and degradation, and also has a higher rate of activity. In humans, alkaline phosphatase is present in all tissues throughout the entire body, but is particularly concentrated in liver, bile duct, kidney, bone, and the placenta.

## **[ ANTIBODY SPECIFICITY ]**

The antibody is a rabbit polyclonal antibody raised against ALP. It has been selected for its ability to recognize ALP in immunohistochemical staining and western blotting.

## **[ APPLICATIONS ]**

Western blotting: 1:50-400

Immunocytochemistry in formalin fixed cells: 1:50-500

Immunohistochemistry in formalin fixed frozen section: 1:50-500

Immunohistochemistry in paraffin section: 1:10-100

Enzyme-linked Immunosorbent Assay: 1:100-200

Optimal working dilutions must be determined by end user.

## **[ CONTENTS ]**

**Form & Buffer:** Supplied as solution form in PBS, pH7.4, containing 0.02% NaN<sub>3</sub>, 50% glycerol.

## **[ STORAGE ]**

Store at 4°C for frequent use. Stored at -20°C to -80°C in a manual defrost freezer for one year without detectable loss of activity. Avoid repeated freeze-thaw cycles.