



## RayBiotech, Inc.

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### Certificate of Analysis and Data Sheet

## Sheep Anti Human Alkaline Phosphatase (BAP)

### With HRP-Conjugated Secondary Antibody

**Catalog No.**

DS-PB-03001

**Target Species**

Human

**Isotype**

IgG

### **Preparation**

**Immunogen:** Alkaline phosphatase from human bone

**Purification:** Antisera to human alkaline phosphatase were raised by repeated immunizations of sheep with highly purified antigen. Purified IgG prepared by affinity chromatography.

### **Specificity**

DS-PB-03001 recognizes human bone alkaline phosphatase (BAP), a membrane-bound hydrolase enzyme expressed by osteoblast cells.

Alkaline phosphatase (AP) is a ubiquitously expressed enzyme which removes phosphate groups from target molecules, including DNA, RNA and alkaloids, under alkaline conditions, and is present at higher concentrations in the placenta (placental AP), intestines (intestinal AP) and liver/bone/kidney (tissue non-specific AP). Although the exact biochemical function of BAP is uncertain, measurement of the serum levels of BAP can be used as a biochemical indicator of bone turnover. Conditions which present with a decrease in the level of BAP (hypophosphatasemia) include the inherited bone-deforming disorder hypophosphatasia and osteoporosis, whilst an increase in BAP (hyperphosphatasemia) is associated with Paget's disease, bone fractures and osteosarcomas.

### **Formulation**

**Product Type:** Polyclonal Antibody

**Product Form:** Purified IgG - liquid

**Buffer Solution:** Phosphate buffered saline pH7.4

**Approx. Protein Concentration:** IgG concentration 5.0mg/ml

### **References**

1. Farley, J.R. and Baylink, D.J. (1995) Skeletal alkaline phosphatase activity in serum. Clin. Chem. 41: 1551-1553.

**The products are furnished for LABORATORY RESEARCH USE ONLY.  
Not for diagnostic or therapeutic use.**



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### Applications

**Table Summary of antibody applications and working conditions**

Options Functions	YES	NO	Not determined	Recommended Work dilution or concentration
ELISA	.			1/1500 - 1/15000
Western Blotting			.	
IHC			.	
Flow Cytometry			.	
Immunofluorescence staining			.	
Neutralization			.	

Note: Other applications are not tested yet. Optimal dilutions should be determined by each laboratory for each application.

### Secondary Antibody Applications

Options Functions	YES	NO	Not determined	Recommended Work dilution or concentration
Immunoassay (ELISA, Western blot)	.			1:2000-1:5000

### Storage

Store at +4°C or at -20°C if preferred. Storage in frost-free freezers is not recommended. This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.  
**Shelf Life:** 18 months from date of reconstitution

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