

# Human Bone Alkaline Phosphatase ELISA Kit | BALP elisa kit

Human Bone Alkaline Phosphatase ELISA Kit

CATALOG #  
**AAA100646**

REACTIVITY  
**Human**

## PRODUCT SYNONYMS

Bone Alkaline Phosphatase; Human Bone Alkaline Phosphatase ELISA Kit; BALP (Bone Alkaline Phosphatase)/ALPL/BSAP/HOPS/AP-TNAP/TNSALP; BALP elisa kit

## PRODUCT SPECIFICATIONS

|                         |                                                                                                                                                                                                           |
|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Reactivity              | Human                                                                                                                                                                                                     |
| Specificity             | This assay has high sensitivity and excellent specificity for detection of BALP. No significant cross-reactivity or interference between BALP and analogues was observed.                                 |
| Assay Type              | Sandwich ELISA, Double Antibody                                                                                                                                                                           |
| Samples                 | Serum, Plasma, Cell Culture Supernatant, cell or tissue lysate, Other liquid samples                                                                                                                      |
| Detection Range         | 3.125-200ng/ml                                                                                                                                                                                            |
| Sensitivity             | 1.875ng/ml                                                                                                                                                                                                |
| Intra-assay Precision   | Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level BALP were tested 20 times on one plate, respectively. Intra-Assay: CV<8%                                     |
| Inter-assay Precision   | Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level BALP were tested on 3 different plates, 8 replicates in each plate. CV (%) = SD/meanX100. Inter-Assay: CV<10% |
| Preparation and Storage | Store entire kit at 2-8C for short-term. For longer-term, please store the microplate & standard at -20C, while the remaining reagents can be stored at 2-8C                                              |

## IMAGES

### Typical Data & Standard Curve

Results of a typical standard run of a BALP ELISA Kit are shown below. This standard curve was generated at our lab for demonstration purpose only. Each user should obtain their own standard curve as per experiment. (N/A=not applicable)

| X | ng/ml | 0     | 3.125 | 6.25  | 12.5  | 25    | 50    | 100   | 200 |
|---|-------|-------|-------|-------|-------|-------|-------|-------|-----|
| Y | OD450 | 0.058 | 0.129 | 0.159 | 0.279 | 0.484 | 0.808 | 1.445 | 2.3 |

Standard Curve (Sample)

## ADDITIONAL INFORMATION

### Related Product Information for BALP elisa kit

**Principle of the Assay:** This kit was based on sandwich enzyme-linked immune-sorbent assay technology. Anti-BALP antibody was pre-coated onto 96-well plates. And the biotin conjugated anti- BALP antibody was used as detection antibodies. The standards, test samples and biotin conjugated detection antibody were added to the wells subsequently, and wash with wash buffer. HRP-Streptavidin was added and unbound conjugates were washed away with wash buffer. TMB substrates were used to visualize HRP enzymatic reaction. TMB was catalyzed by HRP to produce a blue color product that changed into yellow after adding acidic stop solution. The density of yellow is proportional to the BALP amount of sample captured in plate. Read the O.D. absorbance at 450nm in a microplate reader, and then the concentration of BALP can be calculated.

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

