Rat Alkaline Phosphatase, Tissue-nonspecific (ALPL) CLIA Kit | ALPL clia kit

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CATALOG #	REACTIVITY
AAA161514	**Rat**

PRODUCT SYNONYMS

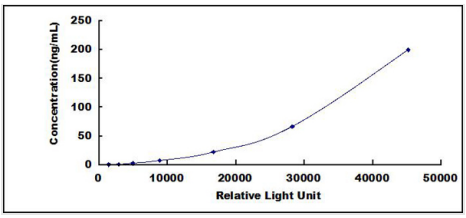
Alkaline Phosphatase; Tissue-nonspecific (ALPL); Rat Alkaline Phosphatase; Tissue-nonspecific (ALPL) CLIA Kit; ALPL CLIA kit (Rat); BALP; BSAP; HOPS; AP-TNAP; TNSALP; Bone Alkaline Phosphatase; Tissue-Nonspecific Isozyme; Liver/Bone/Kidney; ALPL clia kit

PRODUCT SPECIFICATIONS

Reactivity	Rat
Specificity	This assay has high sensitivity and excellent specificity for detection of Alkaline Phosphatase, Tissue-nonspecific (ALPL). No significant cross-reactivity or interference between Alkaline Phosphatase, Tissue-nonspecific (ALPL) and analogues was observed. Reactive with Rat ALPL/Alkaline Phosphatase, Tissue-nonspecific
Assay Type	Double-antibody Sandwich
Samples	Serum, Plasma, Tissue homogenates, Cell lysates, Cell culture supernates and other biological fluids
Detection Method	Chemiluminescence
Featured Series	SE kit
Detection Range	0.27-200ng/mL
Sensitivity	0.12ng/mL
Sample Size	100uL
Assay Time	2h, 40min
Function	Detects protein (regular version)
Precision	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level Alkaline Phosphatase, Tissue-nonspecific (ALPL) were tested 20 times on one plate, respectively. Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level Alkaline Phosphatase, Tissue-nonspecific (ALPL) were tested on 3 different plates, 8 replicates in each plate. CV(%) = SD/meanX100 Intra-Assay: CV<10%, Inter-Assay: CV<12%
Assay Procedure Summary	1. Prepare all reagents, samples and standards 2. Add 100ul standard or sample to each well. Incubate 2 hours at 37 degree C 3. Aspirate and add 100ul prepared Detection Reagent A. Incubate 1 hour at 37 degree C 4. Aspirate and wash 3 times 5. Add 100ul prepared Detection Reagent B. Incubate 30 minutes at 37 degree C 6. Aspirate and wash 5 times 7. Add 100ul Substrate Solution. Incubate 10 minutes at 37 degree C 8. Read RLU value immediately.
Test Principle	The microplate provided in this kit has been pre-coated with an antibody specific to Alkaline Phosphatase, Tissue-nonspecific (ALPL). Standards or samples are then added to the appropriate microplate wells with a biotin-conjugated antibody specific to Alkaline Phosphatase, Tissue-nonspecific (ALPL). Next, Avidin conjugated to Horseradish Peroxidase (HRP) is added to each microplate well and incubated. Then the mixture of substrate A and B is added to generate glow light emission kinetics. Upon plate development, the intensity of the emitted light is proportional to the Alkaline Phosphatase, Tissue-nonspecific (ALPL) level in the sample or standard.

Research Area	Enzyme & Kinase, Metabolic pathway, Hepatology, Bone metabolism
Preparation and Storage	Store at 4 degree C for 1 month/-20 degree C for long-term (One year within shelf life) The stability of kit is determined by the loss rate of activity. The loss rate of this kit is less than 5% within the expiration date under appropriate storage condition.To minimize extra influence on the performance, operation procedures and lab conditions, especially room temperature, air humidity, incubator temperature should be strictly controlled. It is also strongly suggested that the whole assay is performed by the same operator from the beginning to the end.

IMAGES



Standard Curve (Sample)
Typical Standard Curve for ALPL CLIA (Sandwich

NCBI AND UNIPROT INFORMATION

NCBI GI #	130751
NCBI GeneID	25586
UniProt Accession #	P08289; P14055; P70707
Molecular Weight	57,659 Da
NCBI Official Full Name	Alkaline phosphatase, tissue-nonspecific isozyme
NCBI Official Synonym Full Names	alkaline phosphatase, liver/bone/kidney
NCBI Official Symbol	Alpl
NCBI Official Synonym Symbols	Akp2; PHOA
NCBI Protein Information	alkaline phosphatase, tissue-nonspecific isozyme; TNSALP; AP-TNAP; alkaline phosphatase 2, liver; tissue-nonspecific alkaline phosphatase; Tissue-nonspecific ALP alkaline phosphatase; alkaline phosphatase liver/bone/kidney isozyme
UniProt Protein Name	Alkaline phosphatase, tissue-nonspecific isozyme
UniProt Gene Name	**Alpl**
UniProt Synonym Gene Names	AP-TNAP; TNSALP
UniProt Entry Name	PPBT_RAT

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.

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Online datasheet: https://stage.aaabiotech.com/rat-clia-kits/alkaline-phosphatase-tissue-nonspecific-alpl/161514