

Mouse Bone sialoprotein, BSP ELISA Kit | BSP elisa kit

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CATALOG #
AAA79995

REACTIVITY
Mouse

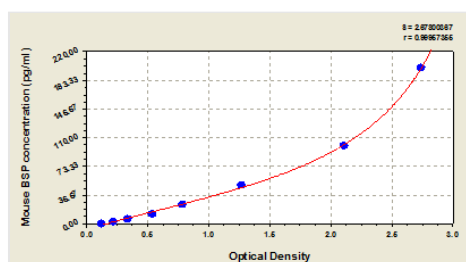
PRODUCT SYNONYMS

Bone sialoprotein; BSP; Mouse Bone sialoprotein; BSP ELISA Kit; BSP ELISA kit; BSP elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Mouse
Specificity	This assay has high sensitivity and excellent specificity for detection of Mouse BSP. No significant cross-reactivity or interference between Mouse BSP and analogues was observed.
Samples	Serum, plasma, cell culture supernates, tissue homogenates
Detection Range	3.12 pg/ml-200 pg/ml
Sensitivity	0.78 pg/ml
Intra-assay Precision	Intra-assay Precision (Precision within an assay): CV% is less than 8% Three samples of known concentration were tested twenty times on one plate to assess. Inter-assay Precision (Precision between assays): CV% is less than 10% Three samples of known concentration were tested in twenty assays to assess.
Detection Wavelength	450 nm
Sample Volume	50-100ul
Preparation and Storage	Unopened test kits should be stored at 2 to 8 degree C upon receipt. Please refer to pdf manual for further storage instructions.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for BSP elisa kit	Introduction: Bone sialoprotein (BSP) is a component of mineralized tissues such as bone, dentin, cementum and calcified cartilage. BSP is a significant component of the bone extracellular matrix and has been suggested to constitute approximately 8% of all non-collagenous proteins found in bone and cementum. BSP was originally isolated from bovine cortical bone as a 23-kDa glycopeptide with high sialic acid content. Native BSP has an apparent molecular weight of 60-80 kDa based on SDS-PAGE, which is a considerable deviation from the predicted weight (based on cDNA sequence) of approximately 33 kDa. The mammalian BSP cDNAs encode for proteins averaging 327 amino acids, which includes the 16-residue preprotein secretory signal peptide. Among the mammalian cDNAs currently characterized, there is an approximate 45% conservation of sequence identity and a further 10-23% conservative substitution. The protein is highly acidic (pKa of ~ 3.9) and contains a large amount of Glu residues, constituting ~22% of the total amino acid. Principle of the Assay: The microtiter plate provided in this kit has been pre-coated with an antibody specific to BSP. Standards or samples are then added to the appropriate microtiter plate wells with a biotin-conjugated antibody preparation specific for BSP and Avidin conjugated to Horseradish Peroxidase (HRP) is added to each microplate well and incubated. Then a TMB (3,3',5,5' tetramethyl-benzidine) substrate solution is added to each well. Only those wells that contain BSP, biotin-conjugated antibody and enzyme-conjugated Avidin will exhibit a change in color. The enzyme-substrate reaction is terminated by the addition of a sulphuric acid solution and the color change is measured spectrophotometrically at a wavelength of 450 nm +/- 2 nm. The concentration of BSP in the samples is then determined by comparing the O.D. of the samples to the standard curve.
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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/mouse-elisa-kits/bone-sialoprotein-bsp/79995>