bs-6292R **[Primary Antibody]**

Bone Alkaline Phosphatase Rabbit pAb

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DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

GeneID: 249 **SWISS:** P05186

Target: Bone Alkaline Phosphatase

Immunogen: KLH conjugated synthetic peptide derived from human Bone Alkaline Phosphatase: 56-150/524.

Purification: affinity purified by Protein A

Concentration: 1mg/ml

Storage: 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

Background: Alkaline phosphatase (ALP) removes phosphate groups from the 5' end of DNA and RNA, and from proteins, at high pH. Most mammals have 4 different isozymes: placental, placental like, intestinal and non tissue specific (found in liver, kidney and bone). Tissues with particularly high concentrations of ALP include the liver, bile ducts, placenta, and bone. Damaged or diseased tissue releases enzymes into the blood, so serum ALP measurements can be abnormal in many conditions, including bone disease and liver disease.

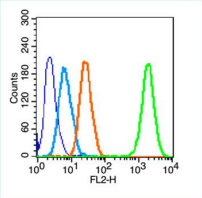
Applications: **Flow-Cyt** (1ug/Test)

Reactivity: Human, Mouse (predicted: Rat, Rabbit, Cow)

Predicted MW.: 55 kDa

Subcellular Location: Cell membrane ,Cytoplasm ,Nucleus

VALIDATION IMAGES



Blank control (blue line): Hep G2(fixed with 70% ethanol Overnight at 4°C). Primary Antibody (green line): Rabbit Anti-Bone Alkaline Phosphatase antibody (bs-6292R),Dilution: 1µg /10^6 cells. Isotype Control Antibody (orange line): Rabbit IgG . Secondary Antibody (white blue line): Goat anti-rabbit IgG-PE,Dilution: 1µg /test.

SELECTED CITATIONS

- **[IF=10.7]** Yingqi Chen. et al. Biofunctional Supramolecular Injectable Hydrogel with Spongy-Like Metal-Organic Coordination for Effective Repair of Critical-Sized Calvarial Defects. ASIAN J PHARM SCI. 2024 Oct;:100988 IHC ;Rat. 10.1016/j.ajps.2024.100988
- **[IF=10.7]** Yingqi Chen. et al.Biofunctional supramolecular injectable hydrogel with spongy-like metal-organic coordination for effective repair of critical-sized calvarial defects.asian j pharm sci.2025 Feb;20(1):100988. IHC ;Rat. 39926635
- **[IF=9.5]** Changjun Chen. et al. Engineered Exosome-Functionalized Extracellular Matrix-Mimicking Hydrogel for Promoting Bone Repair in Glucocorticoid-Induced Osteonecrosis of the Femoral Head. ACS APPL MATER INTER. 2023;XXXX(XXX):XXX-XXX WB,IF,ICC ;Rat. 37305922

- **[IF=8.2]** Jin Zhao. et al. Enhanced osteogenic and ROS-scavenging MXene nanosheets incorporated gelatin-based nanocomposite hydrogels for critical-sized calvarial defect repair. INT J BIOL MACROMOL. 2024 Jun;269:131914 IHC ;Rat. 38703527
- **[IF=7.5]** Jinyong Huang. et al. Isoflavones isolated from chickpea sprouts alleviate ovariectomy-induced osteoporosis in rats by dual regulation of bone remodeling. BIOMED PHARMACOTHER. 2024 Feb;171:116214 WB ;Rat. 38290254