

bsm-52252R**[Primary Antibody]**

Alkaline phosphatase, tissue-nonspecific isozyme Recombinant Rabbit mAb

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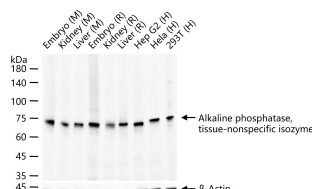
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DATASHEET

Host: Rabbit**Isotype:** IgG**Clonality:** Recombinant**CloneNo.:** 1G9**GeneID:** 249**SWISS:** P05186**Target:** Alkaline phosphatase, tissue-nonspecific isozyme**Immunogen:** KLH conjugated synthetic peptide derived from human Alkaline phosphatase, tissue-nonspecific isozyme: 18-50.**Purification:** affinity purified by Protein A**Concentration:** 1mg/ml**Storage:** Size : 25ul/50ul/100ul/200ul
0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
Size : 200ug (PBS only)
0.01M PBS
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:** WB (1:500-2000)**Reactivity:** Human, Mouse, Rat**Predicted MW.:** 56 kDa**Observed MW.:** 72 kDa**Subcellular Location:** Cell membrane ,Cytoplasm ,Nucleus

VALIDATION IMAGES



25 ug total protein per lane of various lysates (see on figure) probed with Alkaline phosphatase, tissue-nonspecific isozyme monoclonal antibody, unconjugated (bsm-52252R) at 1:1000 dilution and 4°C overnight incubation. Followed by conjugated secondary antibody incubation at r.t. for 60 min.

SELECTED CITATIONS

- **[IF=11.322]** Jinxiu Yu. et al. Promoting osseointegration of titanium by pH-responsive releasing of H₂S and optimizing polarization time for macrophages. COMPOS PART B-ENG. 2023 Mar;253:110554 IHC ;Rat. 10.1016/j.compositesb.2023.110554
- **[IF=9.6]** Fangfang Xu. et al. Autocrine TGF-β1 in Periodontal Ligament-Derived Stem Cell Pellets Enhances Periodontal Regeneration in Class II Furcation Defects of Canine Models. ADV HEALTHC MATER. 2025 Sep;;e02553 IF, WB ;Human. 40981603
- **[IF=7.9]** Ze Li. et al. Multiscale hydrogel regulates mesenchymal stem cell fate for bone regeneration. Cell Reports Physical Science. 2024 Sep;5: IF ;Rat. 10.1016/j.xcrp.2024.102181

Important Note: This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

- **[IF=7.032]** Mengmeng Liang. et al. Osteoclast-derived small extracellular vesicles induce osteogenic differentiation via inhibiting ARHGAP1. Mol Ther-Nucl Acids. 2021 Mar;23:1191 WB ;Mouse. 33664997
- **[IF=6.6]** Yang Zhang. et al. Icariin-Enhanced Osteoclast-Derived Exosomes Promote Repair of Infected Bone Defects by Regulating Osteoclast and Osteoblast Communication. INT J NANOMED. 2024 Nov 21 WB ;Mouse. 39588260