bs-1535R **[Primary Antibody]**

Alkaline Phosphatase, Tissue Non-Specific isozyme Rabbit pAb

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DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

GeneID: 249 **SWISS:** P05186

Target: Alkaline Phosphatase, Tissue Non-Specific isozyme

Immunogen: KLH conjugated synthetic peptide derived from human Alkaline Phosphatase, Tissue Non-Specific isozyme: 52-150/524.

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.

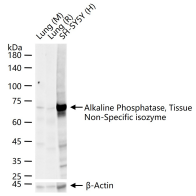
Applications: **WB** (1:500-2000)

Reactivity: Human, Mouse, Rat

Predicted MW.: 56 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 Non-Specific isozyme polyclonal antibody, unconjugated (bs-1535R) at 1:1000 dilution and 4°C overnight incubation. Followed by conjugated secondary antibody incubation at r.t. for 60 min.

SELECTED CITATIONS

- **[IF=5.595]** Cao D et al. Hematopoietic stem cells and lineage cells undergo dynamic alterations under microgravity and recovery conditions.FASEB J. 2019 Feb 27:fj201802421RR. FCM ;Mouse. 30811956
- **[IF=4.545]** Liu Y et al. The synergistic effect of NELL1 and adipose-derived stem cells on promoting bone formation in osteogenesis imperfecta treatment. Biomed Pharmacother. 2020 Aug;128:110235. IHC,IF ;Mouse. 32454289
- **[IF=3.4]** Kim Hyewon. et al. Overexpression of Interleukin-4 using adeno-associated virus is a potential strategy to enhance bone regeneration. JBMR Plus. 2025 Apr;: WB ;Human,Rat. 40390803
- **[IF=1.931]** Yongtao Li. et al. Effects of epigallocatechin gallate (EGCG) on the biological properties of human dental pulp stem cells and inflammatory pulp tissue. Arch Oral Biol. 2021 Mar;123:105034 WB ;Human. 33472098
- **[IF=2.147]** Huijuan Shen. et al. microRNA-146a mediates distraction osteogenesis via bone mesenchymal stem cell

inflammatory response. ACTA HISTOCHEM. 2022 Aug;124:151913 WB ;Dog. 35759812