

Product Datasheet

Alkaline Phosphatase, Tissue Non-Specific Antibody (SA40-00) NBP2-67295

Unit Size: 100 ul

Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.

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NBP2-67295

Alkaline Phosphatase, Tissue Non-Specific Antibody (SA40-00)

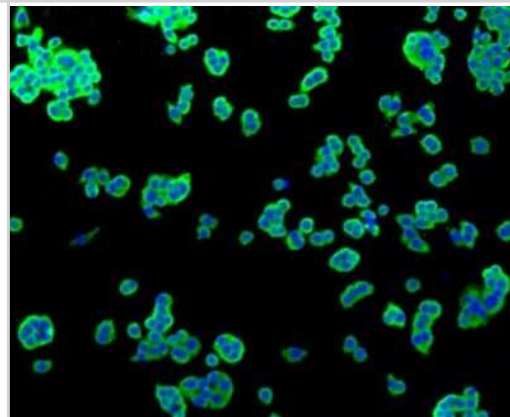
| Product Information | |
|---------------------|--|
| Unit Size | 100 ul |
| Concentration | 1 mg/ml |
| Storage | Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles. |
| Clonality | Monoclonal |
| Clone | SA40-00 |
| Preservative | 0.05% Sodium Azide |
| Isotype | IgG |
| Purity | Protein A purified |
| Buffer | TBS (pH7.4), 0.05% BSA, 40% Glycerol |

| Product Description | |
|---------------------|--|
| Description | Novus Biologicals Rabbit Alkaline Phosphatase, Tissue Non-Specific Antibody (SA40-00) (NBP2-67295) is a recombinant monoclonal antibody validated for use in IHC, WB, Flow, ICC/IF and IP. Anti-Alkaline Phosphatase, Tissue Non-Specific Antibody: Cited in 7 publications. All Novus Biologicals antibodies are covered by our 100% guarantee. |
| Host | Rabbit |
| Gene ID | 249 |
| Gene Symbol | ALPL |
| Species | Human, Mouse, Rat |
| Immunogen | Synthetic peptide within human Alkaline Phosphatase, Tissue Non-Specific aa 18-50. (SwissProt: P05186 Human; SwissProt: P09242 Mouse; SwissProt: P08289 Rat) |

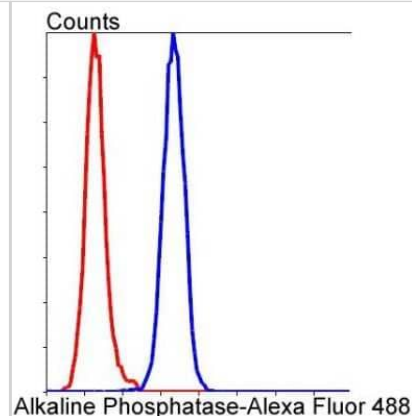
| Product Application Details | |
|-----------------------------|--|
| Applications | Western Blot, Immunohistochemistry-Paraffin, Flow Cytometry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunoprecipitation |
| Recommended Dilutions | Western Blot 1:5,000, Flow Cytometry 1:50, Immunohistochemistry, Immunocytochemistry/ Immunofluorescence 1:50, Immunoprecipitation Use at an assay dependent concentration, Immunohistochemistry-Paraffin 1:50-1:200 |

Images

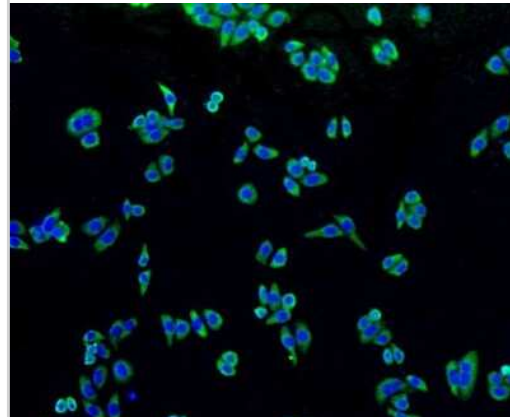
Immunocytochemistry/Immunofluorescence: Alkaline Phosphatase, Tissue Non-Specific Antibody (SA40-00) [NBP2-67295] - Staining ALP in SW480 cells (green). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



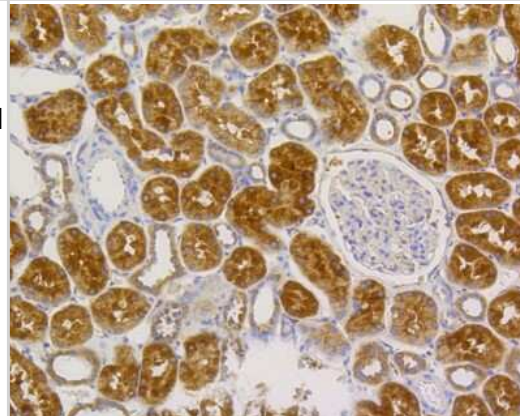
Flow Cytometry: Alkaline Phosphatase, Tissue Non-Specific Antibody (SA40-00) [NBP2-67295] - Analysis of Hela cells with ALP antibody at 1/50 dilution (blue) compared with an unlabelled control (cells without incubation with primary antibody; red). Alexa Fluor 488-conjugated goat anti rabbit IgG was used as the secondary antibody



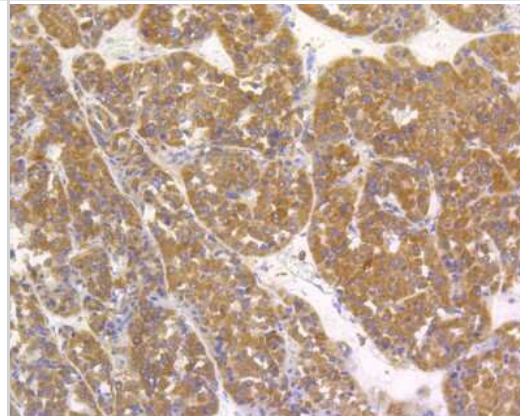
Immunocytochemistry/Immunofluorescence: Alkaline Phosphatase, Tissue Non-Specific Antibody (SA40-00) [NBP2-67295] - Staining ALP in HepG2 cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



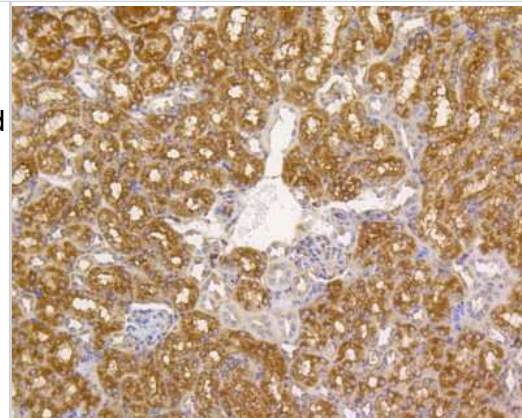
Immunohistochemistry-Paraffin: Alkaline Phosphatase, Tissue Non-Specific Antibody (SA40-00) [NBP2-67295] - Immunohistochemical analysis of paraffin-embedded human kidney tissue using anti-Alkaline Phosphatase, Tissue Non-Specific antibody. The section was pre-treated using heat mediated antigen retrieval with Tris-EDTA buffer (pH 8.0-8.4) for 20 minutes. The t



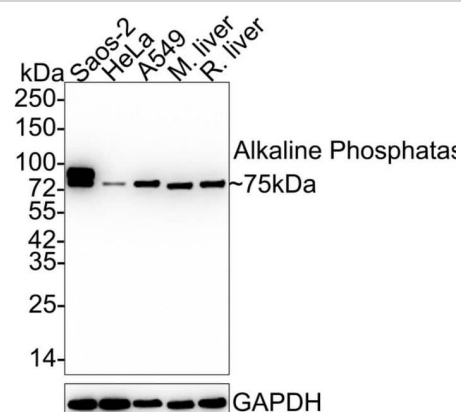
Immunohistochemistry-Paraffin: Alkaline Phosphatase, Tissue Non-Specific Antibody (SA40-00) [NBP2-67295] - Immunohistochemical analysis of paraffin-embedded human liver carcinoma tissue using anti-Alkaline Phosphatase, Tissue Non-Specific antibody. The section was pre-treated using heat mediated antigen retrieval with Tris-EDTA buffer (pH 8.0-8.4) for 20 minut



Immunohistochemistry-Paraffin: Alkaline Phosphatase, Tissue Non-Specific Antibody (SA40-00) [NBP2-67295] - Immunohistochemical analysis of paraffin-embedded mouse kidney tissue using anti-Alkaline Phosphatase, Tissue Non-Specific antibody. The section was pre-treated using heat mediated antigen retrieval with Tris-EDTA buffer (pH 8.0-8.4) for 20 minutes. The t



Western Blot: Alkaline Phosphatase, Tissue Non-Specific Antibody (SA40-00) [NBP2-67295] -Analysis of Alkaline Phosphatase on different lysates with Rabbit anti-Alkaline Phosphatase antibody at 1/5,000 dilution. Lane 1: Saos-2 cell lysate (15ug/Lane) Lane 2: HeLa cell lysate (15 ug/Lane) Lane 3: A549 cell lysate (15 ug/Lane) Lane 4: Mouse liver tissue lysate (20 ug/Lane) Lane 5: Rat liver tissue lysate (20 ug/Lane) Predicted band size: 57 kDa Observed band size: 75 kDa Exposure time: 24 seconds; 4-20% SDS-PAGE gel. Proteins were transferred to a PVDF membrane and blocked with 5% NFDN/TBST for 1 hour at room temperature. The primary antibody at 1/5,000 dilution was used in 5% NFDN/TBST at 4°C overnight. Goat Anti-Rabbit IgG - HRP Secondary Antibody at 1:50,000 dilution was used for 1 hour at room temperature.



Publications

Tao J, You D, Feng Z et al. Mechanosensor Piezo1-mediated smooth muscular cell pyroptosis contributes to vascular calcification. *International Journal of Molecular Medicine* 2025-09-15 [PMID: 40937566]

F Wei, CJ Neal, TS Sakthivel, Y Fu, M Omer, A Adhikary, S Ward, KM Ta, S Moxon, M Molinari, J Asiatico, M Kinzel, SN Yarmolenko, V San Cheong, N Orlovskaya, R Ghosh, S Seal, M Coathup A novel approach for the prevention of ionizing radiation-induced bone loss using a designer multifunctional cerium oxide nanozyme *Bioactive materials*, 2022-09-21;21(0):547-565. 2022-09-21 [PMID: 36185749]

Briolay, A;Duboeuf, F;Delplace, S;Brizuela, L;Peyruchaud, O;Magne, D;Bougault, C; Voluntary exercise in mice triggers an anti-osteogenic and pro-tenogenic response in the ankle joint without affecting long bones *Bone reports* 2024-12-01 [PMID: 39493871]

Katsuhiro Kawaai, Yukiko Kuroda, Koichi Matsuo Calcified Cartilage-Guided Identification of Osteogenic Molecules and Geometries *ACS Biomaterials Science & Engineering* 2024-04-18 [PMID: 38634615]

Meng Z, Zhang S, Li W et al. Cationic proteins from eosinophils bind bone morphogenetic protein receptors promoting vascular calcification and atherogenesis *European heart journal* 2023-06-03 [PMID: 37279475] (WB, Mouse, Human)

Wang S, Gong Y, Wang Z et al. Regulon active landscape reveals cell development and functional state changes of human primary osteoblasts in vivo *Human genomics* 2023-02-15 [PMID: 36793138] (IHC-Fr)

Fan C, Li Z, Ji Q et al. Carboxymethyl chitin or chitosan for osteoinduction effect on the human periodontal ligament stem cells *Dental materials journal* 2022-03-04 [PMID: 35249903] (ICC/IF, Human)

Sun Y, Li R, Yu X Et Al. Highly active biological dermal acellular tissue scaffold composite with human bone powder for bone regeneration *Materials & Design* 2021-11-01 (ICC/IF)

Wei F, Neal C, Sakthivel T et al. Cerium oxide nanoparticles protect against irradiation-induced cellular damage while augmenting osteogenesis *Materials Science and Engineering: C* 2021-04-01 [PMID: 34082956]

Jiang L, Ding S, Ding W et al. Injectable sericin based nanocomposite hydrogel for multi-modal imaging-guided immunomodulatory bone regeneration *Chemical Engineering Journal* 2021-08-01 (WB, ICC/IF)



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Products Related to NBP2-67295

| | |
|-------------|---|
| NBP2-33376H | Blue Marker Antibody (6F4-F6) [HRP] |
| HAF008 | Goat anti-Rabbit IgG Secondary Antibody [HRP] |
| NB7160 | Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP] |
| NBP2-24891 | Rabbit IgG Isotype Control |

Limitations

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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