

Product Datasheet

Osteocalcin Antibody (2D4) - Azide and BSA Free H00000632-M01

Unit Size: 0.1 mg

Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles.

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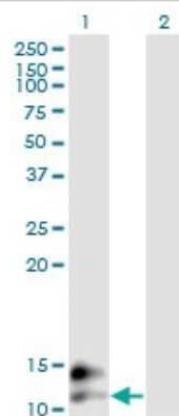
H00000632-M01

Osteocalcin Antibody (2D4) - Azide and BSA Free

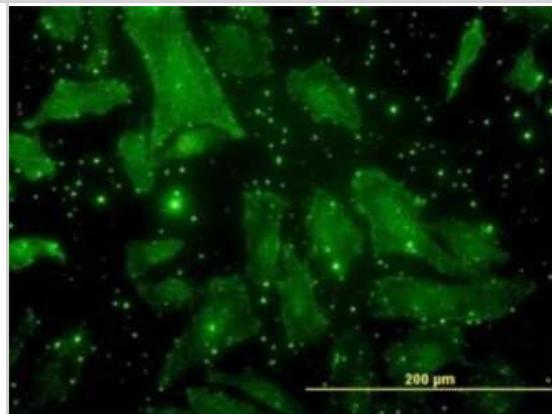
| Product Information | |
|------------------------------------|--|
| Unit Size | 0.1 mg |
| Concentration | Concentrations vary lot to lot. See vial label for concentration. If unlisted please contact technical services. |
| Storage | Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles. |
| Clonality | Monoclonal |
| Clone | 2D4 |
| Preservative | No Preservative |
| Isotype | IgG1 Lambda |
| Purity | IgG purified |
| Buffer | In 1x PBS, pH 7.4 |
| Product Description | |
| Description | Quality control test: Antibody Reactive Against Recombinant Protein. |
| Host | Mouse |
| Gene ID | 632 |
| Gene Symbol | BGLAP |
| Species | Human |
| Specificity/Sensitivity | BGLAP - bone gamma-carboxyglutamate (gla) protein (osteocalcin) |
| Immunogen | BGLAP (NP_954642, 52 a.a. ~ 100 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa. YLYQWLGAPVPYPDPLEPRREVCELNPDCDELADHIGFQEAYRRFYGPV |
| Notes | This product is produced by and distributed for Abnova, a company based in Taiwan. |
| Product Application Details | |
| Applications | Western Blot, ELISA, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry |
| Recommended Dilutions | Western Blot 1:500, ELISA, Immunohistochemistry, Immunocytochemistry/ Immunofluorescence 1:10-1:2000 |
| Application Notes | Use in IHC reported in scientific literature (PMID:34948393).Antibody reactivity against recombinant protein with GST tag on ELISA and WB. GST tag alone is used as a negative control. It has been use for IF.. |

Images

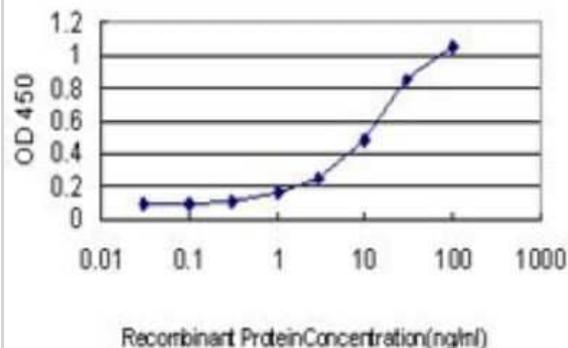
Western Blot: Osteocalcin Antibody (2D4) [H00000632-M01] - Analysis of BGLAP expression in transfected 293T cell line by BGLAP monoclonal antibody (M01), clone 2D4. Lane 1: BGLAP transfected lysate (11 KDa). Lane 2: Non-transfected lysate.



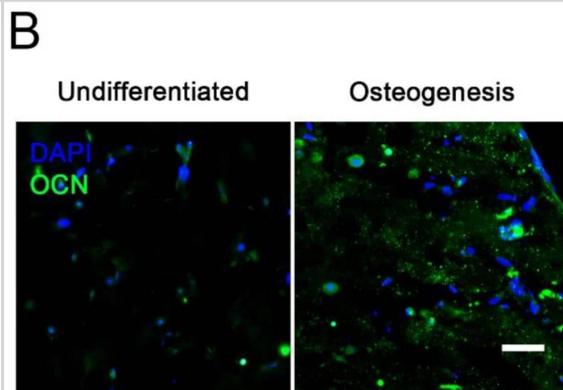
Immunocytochemistry/Immunofluorescence: Osteocalcin Antibody (2D4) [H00000632-M01] - Analysis of monoclonal antibody to BGLAP on HeLa cell. Antibody concentration 10 ug/ml.



ELISA: Osteocalcin Antibody (2D4) [H00000632-M01] - Detection limit for recombinant GST tagged BGLAP is approximately 0.3ng/ml as a capture antibody.



Immunohistochemistry: Osteocalcin Antibody (2D4) [H00000632-M01] - Osteogenic differentiation in 3D. Immunostaining for Osteocalcin (OCN) and nuclear 4',6-diamidino-2-phenylindole (DAPI) in 3D cultures after 5 weeks. Scale bar = 50 μm. Image collected and cropped by CiteAb from the following publication ([//pubmed.ncbi.nlm.nih.gov/34948393/](http://pubmed.ncbi.nlm.nih.gov/34948393/)) licensed under a CC-BY license.



Publications

Anerillas, LO;Wiberg, M;Kingham, PJ;Kelk, P; Platelet lysate for expansion or osteogenic differentiation of bone marrow mesenchymal stem cells for 3D tissue constructs Regenerative therapy 2023-12-01 [PMID: 37588134] (Immunohistochemistry)

Oliveros Anerillas L, Kingham PJ, Lammi MJ et al. Three-Dimensional Osteogenic Differentiation of Bone Marrow Mesenchymal Stem Cells Promotes Matrix Metalloproteinase 13 (MMP13) Expression in Type I Collagen Hydrogels International journal of molecular sciences 2021-12-18 [PMID: 34948393] (IF/IHC, Human)

de Sousa BM, Correia CR, Ferreira JAF Et al. Capacitive interdigitated system of high osteoinductive/conductive performance for personalized acting-sensing implants NPJ Regenerative medicine 2021-11-23 [PMID: 34815414] (ICC/IF, Mouse)





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Products Related to H0000632-M01

| | |
|-------------------|---|
| HAF007 | Goat anti-Mouse IgG Secondary Antibody [HRP] |
| NB720-B | Rabbit anti-Mouse IgG (H+L) Secondary Antibody [Biotin] |
| NBP1-96982 | Mouse IgG1 Lambda Isotype Control (MG1L) |
| H0000632-P01-10ug | Recombinant Human Osteocalcin GST (N-Term) Protein |

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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