

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

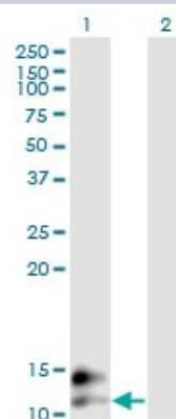
Osteocalcin Antibody (2D4) - Azide and BSA Free

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. YLYQWLGPVPYPDPLEPRREVCELNPDCDELADHIGFQEAYRRFYGPV
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..

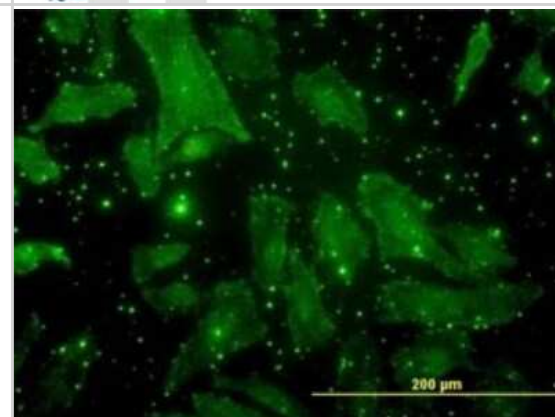


Images

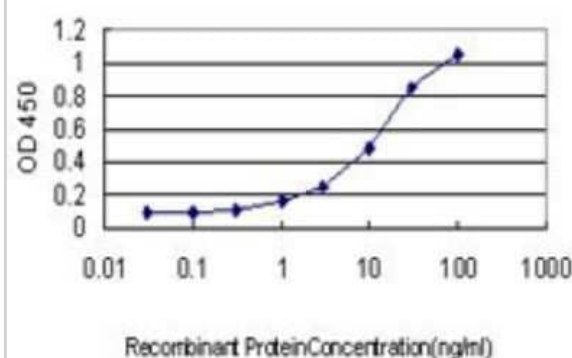
Western Blot: Osteocalcin Antibody (2D4) [H00000632-M01] - Analysis of BGLAP expression in transfected 293T cell line by BGLAP monoclonal antibody (M01), clone 2D4. Lane 1: BGLAP transfected lysate(11 KDa). Lane 2: Non-transfected lysate.



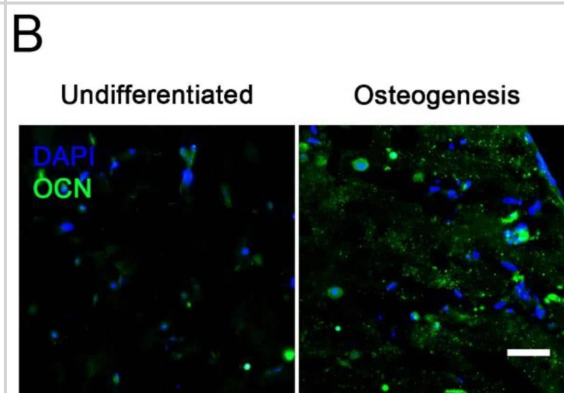
Immunocytochemistry/Immunofluorescence: Osteocalcin Antibody (2D4) [H00000632-M01] - Analysis of monoclonal antibody to BGLAP on HeLa cell. Antibody concentration 10 ug/ml.



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 (<https://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 H00000632-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)
H00000632-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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