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anti-Osteocalcin antibody (AA 21-80)

2 Images

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Publications



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Quantity:	100 μL
Target:	Osteocalcin (BGLAP)
Binding Specificity:	AA 21-80
Reactivity:	Human, Rat, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Osteocalcin antibody is un-conjugated
Application:	ELISA, Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunofluorescence (Cultured Cells) (IF (cc)), Immunofluorescence (Paraffin-embedded Sections) (IF (p)), Immunohistochemistry (Frozen Sections) (IHC (fro)), Flow Cytometry (FACS)

Product Details

Immunogen:	KLH conjugated synthetic peptide derived from human Osteocalcin
Isotype:	IgG
Cross-Reactivity:	Human, Mouse, Rat
Predicted Reactivity:	Dog,Cow,Horse
Purification:	Purified by Protein A.

Target Details

Target: Osteocalcin (BGLAP)

Target Details

rarget Details			
Alternative Name:	Osteocalcin (BGLAP Products)		
Background:	Synonyms: OC, BGP, OCN, Osteocalcin, Bone Gla protein, Gamma-carboxyglutamic acid-		
	containing protein, BGLAP		
	Background: Osteocalcin belongs to the osteocalcin/matrix Gla protein family and constitutes 1		
	to 2 % of the total bone protein. It is a 49 amino acid single chain vitamin K dependent protein,		
	made by osteoblasts, and is a major component of the noncollagenous bone matrix. Post		
	translational modification by a vitamin K dependent carboxylase produces three gamma		
	carboxyglutamic acid residues at positions 17, 21 and 24, giving it a high affinity for calcium. It		
	also binds strongly to apatite.		
Gene ID:	632		
UniProt:	P02818		
Application Details			
Application Notes:	WB 1:300-5000		
	ELISA 1:500-1000		
	FCM 1:20-100		
	IHC-P 1:200-400		
	IHC-F 1:100-500		
	IF(IHC-P) 1:50-200		
	IF(IHC-F) 1:50-200		
	IF(ICC) 1:50-200		
Restrictions:	For Research Use only		
Handling			
Format:	Liquid		
Concentration:	1 μg/μL		
Buffer:	0.01M TBS(pH 7.4) with 1 % BSA, 0.02 % Proclin300 and 50 % Glycerol.		
Preservative:	ProClin		
Precaution of Use:	This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only.		
Storage:	4 °C,-20 °C		

Handling

Storage Comment:	Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.
Expiry Date:	12 months

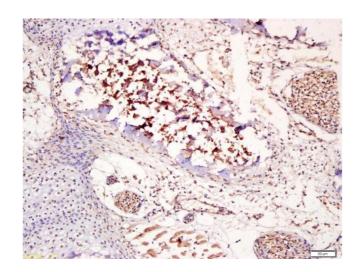
Publications

Product cited in:

Zhang, Men, Fu, Shan, Ye, Wu, Tao, Liu, Jiang: "Contribution of SATB2 to the stronger osteogenic potential of bone marrow stromal cells from craniofacial bones." in: **Cell and tissue research**, Vol. 350, Issue 3, pp. 425-37, (2013) (PubMed).

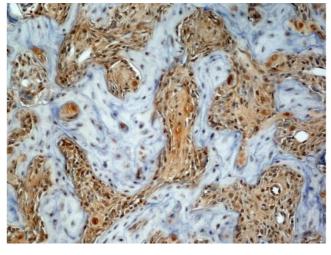
Gao, Zhao, Song, Yang: "Expression pattern of embryonic stem cell markers in DFAT cells and ADSCs." in: **Molecular biology reports**, Vol. 39, Issue 5, pp. 5791-804, (2012) (PubMed).

Images



Immunohistochemistry

Image 1. Formalin-fixed and paraffin embedded mouse embryonic bone labeled with Anti-Osteocalcin Polyclonal Antibody, Unconjugated (ABIN669036) at 1:200 followed by conjugation to the secondary antibody and DAB staining



Immunohistochemistry

Image 2. Generously provided by Markus Linder from Medical University Vienna as part of the Bioss Discovery Program. Formalin-fixed, paraffin embedded, and decalcified in EDTA mouse osteosarcoma labeled with Anti-Osteocalcin Polyclonal Antibody, Unconjugated (ABIN669036) at 1:100 followed by conjugation to the secondary antibody and DAB staining