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anti-Osteocalcin antibody (N-Term)

2 Images



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Overview		
Quantity:	400 μL	
Target:	Osteocalcin (BGLAP)	
Binding Specificity:	AA 2-32, N-Term	
Reactivity:	Human	
Host:	Rabbit	
Clonality:	Polyclonal	
Conjugate:	This Osteocalcin antibody is un-conjugated	
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))	
Product Details		
Immunogen:	This Osteocalcin antibody is generated from rabbits immunized with a KLH conjugated	
	synthetic peptide between 2-32 amino acids from the N-terminal region of human Osteocalcin.	
Clone:	RB04507-04508	
Isotype:	lg Fraction	
Purification:	This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by	
	dialysis against PBS.	
Target Details		
Target:	Osteocalcin (BGLAP)	
Alternative Name:	Osteocalcin (BGLAP Products)	

Target Details

Background:

Prior to the formation of calcified bone, noncollagenous proteins form in the extracellular bone matrix. Gamma-carboxyglutamic acid residues are formed by vitamin K, vitamin-D regulated calcium binding proteins containing residues of Gla. These residues are essential for the binding of calcium and constitue 1-2 % of total bone protein. Osteocalcin itself binds strongly to apatite and calcium. Production of osteocalcin is expressed late in normal bone development and is characteristic of mature osteoblasts. Regular osteocalcin production has been shown to be linked to the p53 tumor suppressor gene. The p53 gene undergoes rearrangement in a high percentage of osteosarcomas, resulting in loss of its expression. The loss of p53 regulation inhibits further osteocalcin production. The absence of end-point differentiation in bone due to p53 rearrangements and lack of osteocalcin production may contribute to the maintenance of the tumorigenic phenotype in osteosarcomas.

Molecular Weight:	10963
Gene ID:	632
NCBI Accession:	NP_954642

Application Details

P02818

For Research Use only

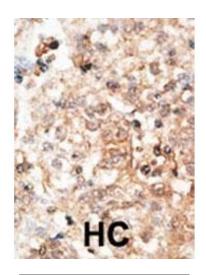
Application Notes:	WB: 1:2000. IHC-P: 1:50~100

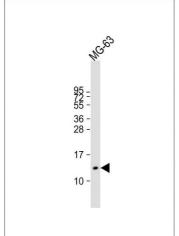
Handling

Restrictions:

UniProt:

Format:	Liquid	
Buffer:	Purified polyclonal antibody supplied in PBS with 0.09 % (W/V) sodium azide.	
Preservative:	Sodium azide	
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.	
Storage:	4 °C,-20 °C	
Storage Comment:	Maintain refrigerated at 2-8 °C for up to 6 months. For long term storage store at -20 °C in smal aliquots to prevent freeze-thaw cycles.	
Expiry Date:	6 months	





Immunohistochemistry (Paraffin-embedded Sections)

Image 1. Formalin-fixed and paraffin-embedded human cancer tissue reacted with the primary antibody, which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry, clinical relevance has not been evaluated. BC = breast carcinoma, HC = hepatocarcinoma.

Western Blotting

Image 2. Anti-OSTC Antibody (C16) at 1:2000 dilution + MG-63 whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size: 11 kDa Blocking/Dilution buffer: 5 % NFDM/TBST.