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Datasheet for ABIN6137546
anti-Osteocalcin antibody (AA 1-100)

4 Images

Overview

Quantity:	100 µL
Target:	Osteocalcin (BGLAP)
Binding Specificity:	AA 1-100
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Osteocalcin antibody is un-conjugated
Application:	Western Blotting (WB), Immunofluorescence (IF)

Product Details

Immunogen:	A synthetic peptide corresponding to a sequence within amino acids 1-100 of human Osteocalcin (BGLAP) (NP_954642.1).
Sequence:	MRALTLALL ALAALCIAGQ AGAKPSGAES SKGAAFVSKQ EGSEVVKRPR RYLYQWLGAP VPYPDPLEPR REVCELNPDC DELADHIGFQ EAYRRFYGPV
Isotype:	IgG
Cross-Reactivity:	Human, Rat
Characteristics:	Polyclonal Antibodies
Purification:	Affinity purification

Target Details

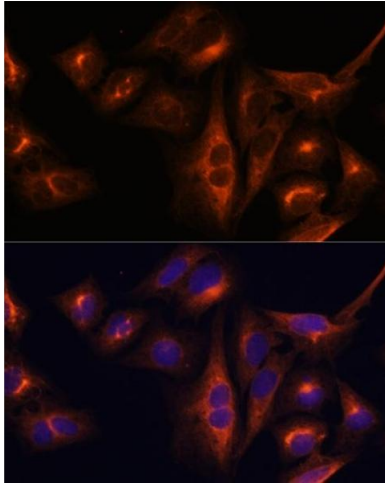
Target:	Osteocalcin (BGLAP)
Alternative Name:	BGLAP (BGLAP Products)
Background:	This gene encodes a highly abundant bone protein secreted by osteoblasts that regulates bone remodeling and energy metabolism. The encoded protein contains a Gla (gamma carboxyglutamate) domain, which functions in binding to calcium and hydroxyapatite, the mineral component of bone. Serum osteocalcin levels may be negatively correlated with metabolic syndrome. Read-through transcription exists between this gene and the neighboring upstream gene, PMF1 (polyamine-modulated factor 1), but the encoded protein only shows sequence identity with the upstream gene product.,BGLAP,BGP,OC,OCN,osteocalcin,Signal Transduction,Cell Biology & Developmental Biology,Cytoskeleton,Extracellular Matrix,Bone,Stem Cells,Mesenchymal Stem Cells,BGLAP
Molecular Weight:	10 kDa
Gene ID:	632
UniProt:	P02818

Application Details

Application Notes:	WB,1:500 - 1:2000,IF,1:50 - 1:200
Comment:	HIGH QUALITY
Restrictions:	For Research Use only

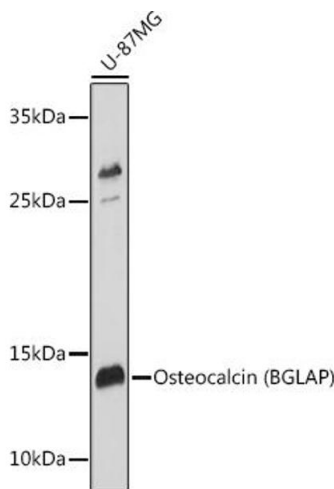
Handling

Format:	Liquid
Buffer:	PBS with 0.02 % sodium azide,50 % glycerol, pH 7.3.
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:	-20 °C
Storage Comment:	Store at -20°C. Avoid freeze / thaw cycles.



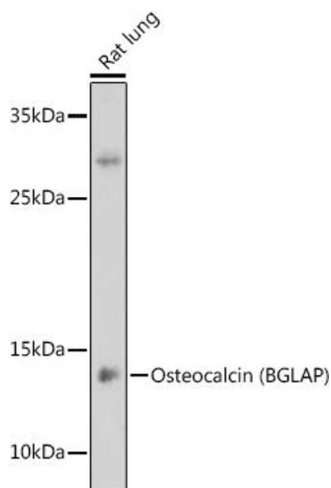
Immunofluorescence

Image 1. Immunofluorescence analysis of U-2 OS cells using Osteocalcin antibody (ABIN6134565, ABIN6137546, ABIN6137547 and ABIN6221793) at dilution of 1:100. Blue: DAPI for nuclear staining.



Western Blotting

Image 2. Western blot analysis of extracts of U-87MG cells, using Osteocalcin (BGLAP) antibody (ABIN6134565, ABIN6137546, ABIN6137547 and ABIN6221793) at 1:1000 dilution. Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (ABIN1684268 and ABIN3020597) at 1:10000 dilution. Lysates/proteins: 25 µg per lane. Blocking buffer: 3 % nonfat dry milk in TBST. Detection: ECL Basic Kit (RM00020). Exposure time: 1s.



Western Blotting

Image 3. Western blot analysis of extracts of Rat lung, using Osteocalcin (BGLAP) antibody (ABIN6134565, ABIN6137546, ABIN6137547 and ABIN6221793) at 1:1000 dilution. Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (ABIN1684268 and ABIN3020597) at 1:10000 dilution. Lysates/proteins: 25 µg per lane. Blocking buffer: 3 % nonfat dry milk in TBST. Detection: ECL Basic Kit (RM00020). Exposure time: 180s.

Please check the [product details page](#) for more images. Overall 4 images are available for ABIN6137546.