

Osteocalcin (BGLAP) Rabbit pAb

Catalog No.: A18241 **2 Publications**

Basic Information

Observed MW

11kDa

Calculated MW

11kDa

Category

Primary antibody

Applications

ELISA, WB, IF/ICC

Cross-Reactivity

Human, Mouse, Rat

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.

Recommended Dilutions

| | |
|---------------|----------------|
| WB | 1:500 - 1:1000 |
| IF/ICC | 1:50 - 1:200 |

Immunogen Information

Gene ID

632

Swiss Prot

P02818

Immunogen

A synthetic peptide corresponding to a sequence within amino acids 1-95 of human Osteocalcin (BGLAP) (NP_954642.1).

Synonyms

OC; BGP; OCN; Osteocalcin (BGLAP)

Contact

 | 400-999-6126 | cn.market@abclonal.com.cn | www.abclonal.com.cn

Product Information

Source

Rabbit

Isotype

IgG

Purification

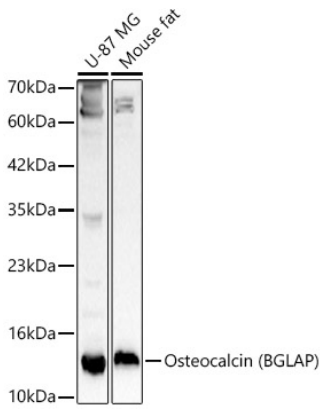
Affinity purification

Storage

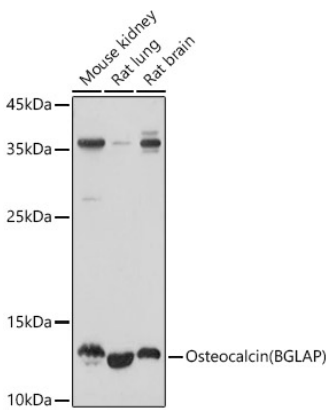
Store at -20°C. Avoid freeze / thaw cycles.

Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH 7.3.

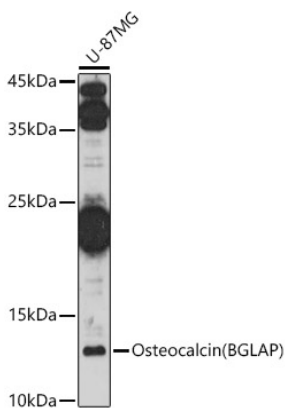
Validation Data



Western blot analysis of various lysates, using Osteocalcin (BGLAP) Rabbit pAb (A18241) at 1:1000 dilution.
Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 25ug per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: 10s.

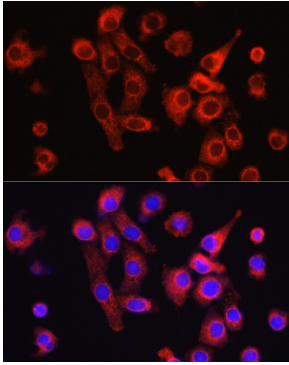


Western blot analysis of extracts of various cell lines, using Osteocalcin (BGLAP) antibody (A18241) at 1:1000 dilution.
Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 25µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: 1s.

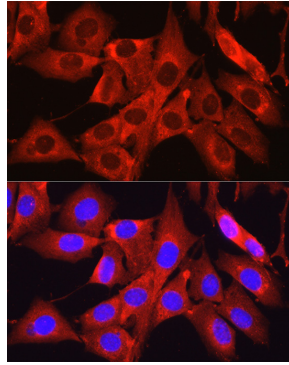


Western blot analysis of extracts of U-87MG cells, using Osteocalcin (BGLAP) antibody (A18241) at 1:1000 dilution.
Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 25µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: 180s.

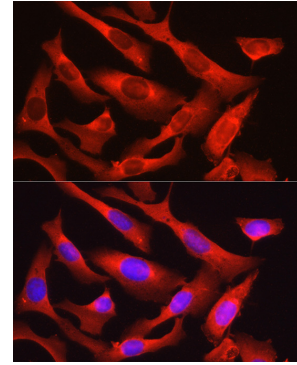
Validation Data



Immunofluorescence analysis of MG-63 cells using Osteocalcin (BGLAP) Rabbit pAb (A18241) at dilution of 1:200 (40x lens). Blue: DAPI for nuclear staining.



Immunofluorescence analysis of NIH/3T3 cells using Osteocalcin (BGLAP) Rabbit pAb (A18241) at dilution of 1:200 (40x lens). Blue: DAPI for nuclear staining.



Immunofluorescence analysis of U2OS cells using Osteocalcin (BGLAP) Rabbit pAb (A18241) at dilution of 1:200 (40x lens). Blue: DAPI for nuclear staining.