

A6205

Leader in Biomolecular Solutions for Life Science



Osteocalcin (BGLAP) Rabbit pAb

Catalog No.: A6205

40 Publications

Basic Information

Observed MW

12kDa

Calculated MW

11kDa

Category

Polyclonal Antibody

Applications

WB,IF/ICC,ELISA

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

ELISA Recommended starting concentration is 1 µg/mL. Please optimize the concentration based on your specific assay requirements.

Immunogen Information

Gene ID
632

Swiss Prot
P02818

Immunogen

Synthetic peptide. This information is considered to be commercially sensitive.

Synonyms

OC; BGP; OCN; Osteocalcin (BGLAP)

Contact

 www.abclonal.com

Product Information

Source
Rabbit

Isotype
IgG

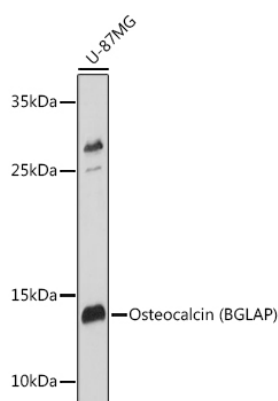
Purification
Affinity purification

Storage

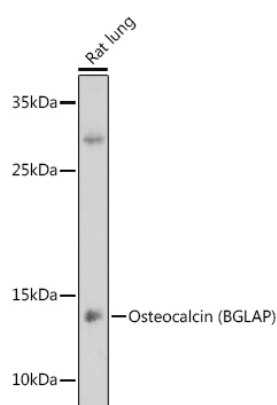
Store at -20°C. Avoid freeze / thaw cycles.

Buffer: PBS with 0.09% Sodium azide,50% glycerol,pH7.3.

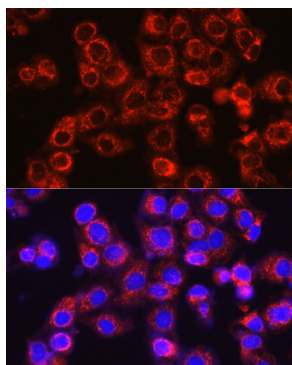
Validation Data



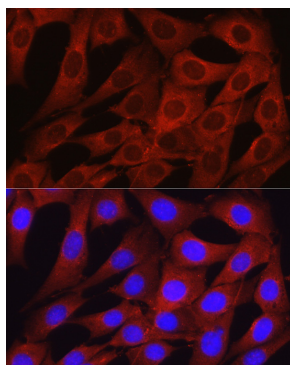
Western blot analysis of lysates from U-87MG cells, using Osteocalcin (BGLAP) Rabbit pAb (A6205) at 1:1000 dilution.
 Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
 Lysates/proteins: 25µg per lane.
 Blocking buffer: 3% nonfat dry milk in TBST.
 Detection: ECL Basic Kit (RM00020).
 Exposure time: 1s.



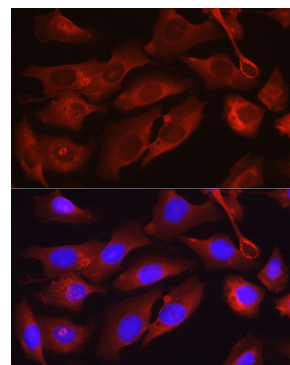
Western blot analysis of lysates from Rat lung, using Osteocalcin (BGLAP) Rabbit pAb (A6205) at 1:1000 dilution.
 Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
 Lysates/proteins: 25µg per lane.
 Blocking buffer: 3% nonfat dry milk in TBST.
 Detection: ECL Basic Kit (RM00020).
 Exposure time: 180s.



Immunofluorescence analysis of MG-63 cells using Osteocalcin (BGLAP) Rabbit pAb (A6205) at dilution of 1:200 (40x lens).
 Secondary antibody: Cy3-conjugated Goat anti-Rabbit IgG (H+L) (AS007) at 1:500 dilution. Blue: DAPI for nuclear staining.



Immunofluorescence analysis of NIH/3T3 cells using Osteocalcin (BGLAP) Rabbit pAb (A6205) at dilution of 1:200 (40x lens).
 Secondary antibody: Cy3-conjugated Goat anti-Rabbit IgG (H+L) (AS007) at 1:500 dilution. Blue: DAPI for nuclear staining.



Immunofluorescence analysis of U2OS cells using Osteocalcin (BGLAP) Rabbit pAb (A6205) at dilution of 1:200 (40x lens). Secondary antibody: Cy3-conjugated Goat anti-Rabbit IgG (H+L) (AS007) at 1:500 dilution. Blue: DAPI for nuclear staining.