Osteocalcin (BGLAP) Rabbit pAb

Catalog No.: A6205 40 Publications



Basic Information

Observed MW

12kDa

Calculated MW

11kDa

Category

Primary 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

 $\begin{array}{c} \textbf{ELISA} & \text{Recommended starting} \\ & \text{concentration is 1 } \mu\text{g/mL}. \end{array}$

Please optimize the concentration based on your specific assay requirements.

Immunogen Information

Gene ID632

Swiss Prot
P02818

Immunogen

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

Synonyms

OC; BGP; OCN; Osteocalcin (BGLAP)

Contact

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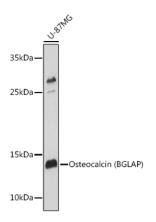
Product Information

SourceIsotypePurificationRabbitIgGAffinity purification

Storage

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

Buffer: PBS containing 50% glycerol, preserved with proclin300 or sodium azide (as specified on the Certificate of Analysis), pH 7.3.



Western blot analysis of lysates from U-87MG cells, using Osteocalcin (BGLAP) Rabbit pAb (A6205) at 1:1000 dilution.

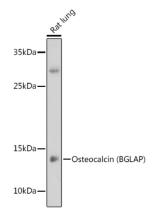
Secondary antibody: HRP-conjugated Goat anti-Rabbit $IgG\ (H+L)\ (AS014)$ at 1:10000 dilution.

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.

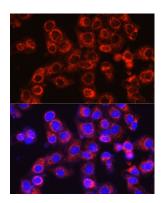
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.

Lysates/proteins: 25µg per lane.

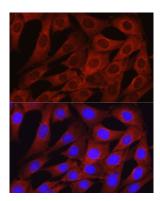
Blocking buffer: 3% nonfat dry milk in TBST.

Detection: ECL Basic Kit (RM00020).

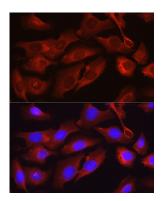
Exposure time: 180s.



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.