

Anti-Osteocalcin/BGLAP Antibody

Catalog Number: PB9919

About Bglap

Osteocalcin, also known as bone gamma-carboxyglutamic acid-containing protein (BGLAP), is a noncollagenous protein found in bone and dentin. In humans, the osteocalcin is encoded by the BGLAP gene. Its receptor is GPRC6A. It is mapped to 1q22. Osteocalcin may play a role in the body's metabolic regulation and is pro-osteoblastic, or bone-building. It acts as a hormone in the body, causing beta cells in the pancreas to release more insulin, and at the same time directing fat cells to release the hormone adiponectin, which increases sensitivity to insulin. Also, it may play a role in male fertility. And it is found that picomolar amounts of osteocalcin affected insulin secretion and beta-cell proliferation.

Overview

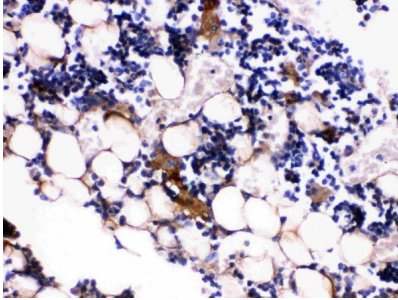
Product Name	Anti-Osteocalcin/BGLAP Antibody
Reactive Species	Mouse
Description	Boster Bio Anti-Osteocalcin/BGLAP Antibody catalog # PB9919. Tested in IHC applications. This antibody reacts with Mouse.
Application	IHC
Clonality	Polyclonal
Formulation	Each vial contains antibody formulated with stabilizing components, 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ , and 0.05 mg NaN ₃ . *This antibody is supplied in a stabilized formulation. Compatibility with conjugation reactions depends on the chemistry of the conjugation method used. For conjugation methods that are not compatible with the stabilizing components present in this formulation, a carrier-free antibody format is required.
Storage Instructions	Store at -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freeze-thaw cycles.
Host	Rabbit
Uniprot ID	P86546

Technical Details

Immunogen	E. coli-derived mouse Osteocalcin recombinant protein (Position: Y50-I95). Mouse Osteocalcin shares 69% and 68.9% amino acid (aa) sequence identity with human and rat Osteocalcin, respectively.
Recommended Detection Systems	Boster recommends HRP Conjugated anti-Rabbit IgG Super Vision Assay Kit (SV0002-1) for IHC(P).
Cross Reactivity	No cross-reactivity with other proteins
Isotype	Rabbit IgG

Form	Lyophilized
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.
Purification	Immunogen affinity purified.
Suggested Dilutions	Immunohistochemistry (Paraffin-embedded Section), 0.5-1ug/ml, Mouse

Anti-Osteocalcin/BGLAP Antibody (PB9919) Images



IHC analysis of Osteocalcin using anti-Osteocalcin antibody (PB9919). Osteocalcin was detected in paraffin-embedded section of mouse tibia tissues. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1ug/ml rabbit anti-Osteocalcin Antibody (PB9919) overnight at 4°C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC)(Catalog # SA1022) with DAB as the chromogen.

8 Publications Citing This Product

1. PubMed ID: 10.1371/journal.pone.0181133, Role of glucocorticoid-induced leucine zipper (GILZ) in inflammatory bone loss
2. PubMed ID: 28771604, Role of glucocorticoid-induced leucine zipper (GILZ) in inflammatory bone loss
3. PubMed ID: 28791357, Synergistic effects of fibroblast growth factor-2 and bone morphogenetic protein-2 on bone induction

Visit bosterbio.com/anti-osteocalcin-picoband-trade-antibody-pb9919-boster.html to see all 8 publications.

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