

Anti-Osteocalcin Picoband Antibody

Catalog # ABO12605

Specification

Anti-Osteocalcin Picoband Antibody - Product Information

Application IHC
Primary Accession P04640
Host Rabbit
Reactivity Rat
Clonality Polyclonal
Format Lyophilized

Description

Rabbit IgG polyclonal antibody for Osteocalcin(BGLAP) detection. Tested with IHC-P in Rat.

Reconstitution

Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Anti-Osteocalcin Picoband Antibody - Additional Information

Gene ID 25295

Other Names

Osteocalcin, Bone Gla protein, BGP, Gamma-carboxyglutamic acid-containing protein, Bglap, Bglap2

Calculated MW

10927 MW KDa

Application Details

Subcellular Localization

Secreted.

Protein Name

Osteocalcin

Contents

Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3.

Immunogen

E. coli-derived rat Osteocalcin recombinant protein (Position: Y50-V99). Rat Osteocalcin shares 80.9% and 68.9% amino acid (aa) sequence identity with human and mouse Osteocalcin, respectively.

Purification

Immunogen affinity purified.

Cross Reactivity



No cross reactivity with other proteins

Storage

At -20°C for one year. After r°Constitution, at 4°C for one month. It°Can also be aliquotted and stored frozen at -20°C for a longer time. Avoid repeated freezing and thawing.

Anti-Osteocalcin Picoband Antibody - Protein Information

Name Bglap

Synonyms Bglap2

Function

The carboxylated form is one of the main organic components of the bone matrix, which constitutes 1-2% of the total bone protein: it acts as a negative regulator of bone formation and is required to limit bone formation without impairing bone resorption or mineralization. The carboxylated form binds strongly to apatite and calcium.

Cellular Location

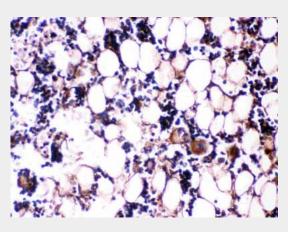
Secreted {ECO:0000250|UniProtKB:P86546}.

Anti-Osteocalcin Picoband Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Anti-Osteocalcin Picoband Antibody - Images



Osteocalcin was detected in paraffin-embedded sections of rat tibia tissues using rabbit anti-Osteocalcin Antigen Affinity purified polyclonal antibody (Catalog # ABO12605) at 1 ??g/mL. The





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immunohistochemical section was developed using SABC method .

Anti-Osteocalcin Picoband Antibody - Background

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 cellsin 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.