

## Anti-Osteocalcin/BGLAP Antibody Fluoro550 Conjugated

Catalog Number: PB9920-Fluoro550

### 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 Fluoro550 Conjugated
Reactive Species	Rat
Application	Flow Cytometry
Clonality	Polyclonal
Formulation	Each vial contains 50% glycerol, 0.9% NaCl, 0.2% Na <sub>2</sub> HPO <sub>4</sub> , 0.02% NaN <sub>3</sub> .
Storage Instructions	At -20°C for one year from date of receipt. Avoid repeated freezing and thawing. Protect from light.
Host	Rabbit
Uniprot ID	P04640

### Technical Details

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.
Cross Reactivity	No cross-reactivity with other proteins
Isotype	Rabbit IgG
Form	Liquid
Concentration	0.5 mg/mL
Purification	Immunogen affinity purified.
Conjugate	Fluoro550 Excitation Wavelength: 562 nm Emission Wavelength: 576 nm
Suggested Dilutions	Flow Cytometry, Optimal dilutions should be determined by end users.

## 8 Publications Citing This Product

1. PubMed ID: -, Caiyun Mu, Ye He, Yan Hu, Menghuan Li, Maowen Chen, Rong Wang, Yang Xiang, Zhong Luo, Kaiyong Cai, Construction of chemokine substance P-embedded biomimetic multilayer onto bioactive magnesium silicate-titanium implant for bone regeneration, Applied Materials Today
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

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