

Product datasheet

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ARG54608 anti-Osteocalcin antibody [OCG4]

Package: 50 μg Store at: -20°C

Summary

Product Description Mouse Monoclonal antibody [OCG4] recognizes Osteocalcin

Tested Reactivity Hu, Bov, Chk, Dog, Goat, Pig, Rb, Sheep

Tested Application ELISA, IHC-P, WB

Host Mouse

Clonality Monoclonal

Clone OCG4

Isotype IgG1

Target Name Osteocalcin

Species Bovine

Immunogen Bovine osteocalcin

Epitope Residues 21-31

Conjugation Un-conjugated

Alternate Names OCN; Gamma-carboxyglutamic acid-containing protein; Osteocalcin; OC; Bone Gla protein; BGP

Application Instructions

Application Note Sandwich ELISA: 1 - 10 ug/ml.

Western blot: 1 - 10 ug/ml, reducing or non-reducing conditions.

Immunohistochemistry: 1 - 10 ug/ml, paraffin-embedded or frozen tissue sections.

* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations

should be determined by the scientist.

Properties

Form Liquid

Buffer 10 mM PBS (pH 7.4) and 1% BSA

Stabilizer 1% BSA

Storage instruction For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot

and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed

before use.

Note For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Gene Symbol BGLAP

Gene Full Name bone gamma-carboxyglutamate (gla) protein

This gene encodes a highly abundant bone protein secreted by osteoblasts that regulates bone Background

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.

[provided by RefSeg, Jun 2015]

Function Constitutes 1-2% of the total bone protein. It binds strongly to apatite and calcium. [UniProt] Research Area

Developmental Biology antibody; Signaling Transduction antibody

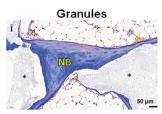
Calculated Mw 11 kDa

PTM Gamma-carboxyglutamate residues are formed by vitamin K dependent carboxylation. These residues are

essential for the binding of calcium.

Images





ARG54608 anti-Osteocalcin antibody [OCG4] IHC-P image

Immunohistochemistry: Rabbit femur stained with ARG54608 anti-Osteocalcin antibody [OCG4].

From Koichiro Hayashi et al. Adv Healthc Mater (2024), doi: 10.1002/adhm.202303245, Fig. 7I & 8I.