

# Product datasheet

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# ARG40960 anti-Osteocalcin (full length) antibody

Package: 100 μl Store at: -20°C

### **Summary**

Product Description Rabbit Polyclonal antibody recognizes Osteocalcin (full length)

Tested Reactivity Hu

Tested Application WB

Host Rabbit

**Clonality** Polyclonal

Isotype IgG

Target Name Osteocalcin (full length)

Species Human

Immunogen KLH-conjugated synthetic peptide corresponding to aa. 2-32 of Human Osteocalcin.

Conjugation Un-conjugated

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

# **Application Instructions**

Application table	Application	Dilution		
	WB	1:1000		
Application Note		dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations d be determined by the scientist.		
Positive Control	MG-63			

# **Properties**

Form Liquid

**Purification** Purification with Protein G.

Buffer PBS and 0.09% (W/V) Sodium azide.

Preservative 0.09% (W/V) Sodium azide

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

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. [provided by RefSeq, Jun 2015]

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

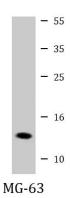
Calculated Mw 11 kDa

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

are essential for the binding of calcium. [UniProt]

Cellular Localization Secreted. [UniProt]

#### **Images**



#### ARG40960 anti-Osteocalcin (full length) antibody WB image

Western blot: 20  $\mu g$  of MG-63 whole cell lysate stained with ARG40960 anti-Osteocalcin (full length) antibody at 1:2000 dilution.