

ARG10528 anti-Osteocalcin antibody [2H9]

Package: 250 µg, 125 µg
Store at: -20°C

Summary

Product Description	Mouse Monoclonal antibody [2H9] recognizes Osteocalcin
Tested Reactivity	Hu
Predict Reactivity	Bov, Rat, Pig
Species Does Not React With	Ms
Tested Application	ELISA
Specificity	This antibody cross-reacts with bovine, rat and pig Osteocalcin and is not cross-reacting with mouse Osteocalcin.
Host	Mouse
Clonality	Monoclonal
Clone	2H9
Isotype	IgG2a
Target Name	Osteocalcin
Species	Human
Immunogen	Recombinant Human Osteocalcin with glutathione S-transferase
Conjugation	Un-conjugated
Alternate Names	OCN; Gamma-carboxyglutamic acid-containing protein; Osteocalcin; OC; Bone Gla protein; BGP

Application Instructions

Application Note	Recommended pairs for sandwich immunoassay (capture-detection): ARG10528 - ARG10529 (detects the large NH2- terminal fragment and intact hOC)
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Properties

Form	Liquid
Purification	Purification with Protein A.
Buffer	PBS (pH 7.4) and 0.09 % Sodium azide
Preservative	0.09 % 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

Database links	GeneID: 632 Human Swiss-port # P02818 Human
Gene Symbol	BGLAP
Gene Full Name	bone gamma-carboxyglutamate (gla) protein
Background	<p>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]</p>
Function	Constitutes 1-2% of the total bone protein. It binds strongly to apatite and calcium. [UniProt]
Highlight	<p>Related Antibody Duos and Panels: ARG30290 Osteocalcin ELISA Antibody Duo Related products: Osteocalcin antibodies; Osteocalcin ELISA Kits; Osteocalcin Duos / Panels; Anti-Mouse IgG secondary antibodies;</p>
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.