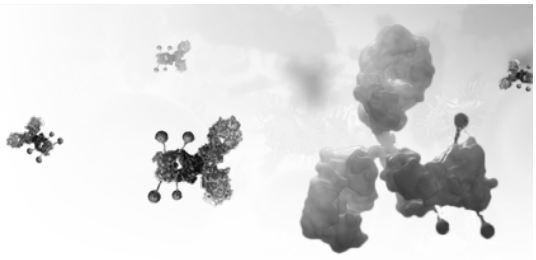

Anti-BGLAP (aa 1-22) polyclonal antibody (DPAB3157RH)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Product Overview	Polyclonal antibody to human Osteocalcin (aa 1-22)
Antigen Description	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. Osteocalcin is secreted solely by osteoblasts and thought to play a role in the body"s metabolic regulation and is pro-osteoblastic, or bone-building, by nature. It is also implicated in bone mineralization and calcium ion homeostasis. Osteocalcin 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.
Specificity	Human Osteocalcin (aa 1-22). There were no cross reactivities obtained with human Osteopontin, human Osteonectin, and human Bone Sialoprotein
Immunogen	Synthetic human Osteocalcin (aa 1-22) (YLYQWLGAPVPYPDPLEPRREV)
Isotype	IgG
Source/Host	Rabbit
Species Reactivity	Human
Conjugate	Unconjugated
Applications	RIA, ELISA
Concentration	20 µl / 100 µl (lyophilized). Resuspend in 20 µl / 100 µl aqua bidest
Preservative	None
Storage	2-8 °C (lyophilized); - 20 °C (dissolved). Repeated thawing and freezing must be avoided

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GENE INFORMATION

Gene Name	BGLAP bone gamma-carboxyglutamate (gla) protein [Homo sapiens]
Official Symbol	BGLAP
Synonyms	OC; BGP; BGLAP; osteocalcin; bone Gla protein; OTTHUMP00000016586; gamma-carboxyglutamic acid-containing protein; bone gamma-carboxyglutamate (gla) protein (osteocalcin)
Entrez Gene ID	632
Protein Refseq	NP_954642
UniProt ID	P02818
Chromosome Location	1q25-q31
Pathway	Cell Cycle; DNA Replication; FGF signaling pathway; Glucocorticoid receptor regulatory network; M Phase; Mitotic M-M/G1 phases; Mitotic Prometaphase; Notch-mediated HES/HEY network; Regulation of retinoblastoma protein; Validated transcriptional targets of AP1 family members Fra1 and Fra2
Function	calcium ion binding; hydroxyapatite binding; structural constituent of bone; structural molecule activity

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