



# Magic™ Anti-BGLAP monoclonal antibody, clone N29723PT2 (DCABY-4588)

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

## PRODUCT INFORMATION

|                            |  |
|----------------------------|--|
| <b>Antigen Description</b> | Osteocalcin, also known as Bone-Gla-Protein (BGP), is a single chain (Mr=5800) vitamin K dependent protein produced by osteoblasts and found in high concentrations in bone. Post-translational modification by a vitamin K dependent carboxylase produces three g-carboxyglutamic acid residues at positions 17, 21 and 24. |
| <b>Specificity</b>         | When pairing with DCABY-4589, detects only the intact Human Osteocalcin.   |
| <b>Immunogen</b>           | Osteocalcin antibody was raised in mouse using bovine osteocalcin with keyhole limpet hemocyanin and recombinant human osteocalcin with glutathione S-transferase as the immunogen.  |
| <b>Isotype</b>             | IgG1   |
| <b>Source/Host</b>         | Mouse  |
| <b>Species Reactivity</b>  | Human  |
| <b>Clone</b>               | N29723PT2  |
| <b>Purification</b>        | Osteocalcin antibody was purified by Protein A chromatography.   |
| <b>Conjugate</b>           | Unconjugated   |
| <b>Applications</b>        | ELISA Pr*<br>Suggested pair for sandwich ELISA (Capture - Detection): DCABY-4588 - <a href="#">DCABY-4589</a>  |
| <b>Format</b>              | Liquid   |
| <b>Size</b>                | 1 mg   |
| <b>Buffer</b>              | Supplied in 0.9 % NaCl, 0.1 % sodium azide   |

Storage

Store at 4 °C

## GENE INFORMATION

|                     |  |
|---------------------|--|
| Gene Name           | <a href="#">BGLAP bone gamma-carboxyglutamate protein [ Homo sapiens ]</a>   |
| Official Symbol     | BGLAP  |
| Synonyms            | BGLAP; bone gamma-carboxyglutamate protein; OC; BGP; OCN; osteocalcin; bone Gla protein; gamma-carboxyglutamic acid-containing protein; bone gamma-carboxyglutamate protein;                     |
| Entrez Gene ID      | <a href="#">632</a>  |
| Protein Refseq      | <a href="#">NP_954642</a>  |
| UniProt ID          | <a href="#">P02818</a>   |
| Chromosome Location | 1q22   |
| Pathway             | Cell Cycle; Cell Cycle, Mitotic; FGF signaling pathway; Glucocorticoid receptor regulatory network; Interleukin-11 Signaling Pathway; M Phase; Mitotic Anaphase; Mitotic Metaphase and Anaphase; |
| Function            | calcium ion binding; hydroxyapatite binding; structural constituent of bone; structural molecule activity;   |