

## Osteocalcin Monoclonal Antibody | anti-BGLAP antibody

Monoclonal mouse anti-human osteocalcin

|                              |                              |
|------------------------------|------------------------------|
| CATALOG #<br><b>AAA14853</b> | APPLICATIONS<br><b>ELISA</b> |
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### PRODUCT SYNONYMS

Osteocalcin; Monoclonal Antibody; Monoclonal mouse anti-human osteocalcin; anti-BGLAP antibody

### PRODUCT SPECIFICATIONS

|                                                 |                                                                                                                                                                                                                                                                                               |
|-------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Clonality                                       | Monoclonal                                                                                                                                                                                                                                                                                    |
| Clone Number                                    | 3G7, 1C4, 1C7, 3G8, 8H12, 2H9, 6F9                                                                                                                                                                                                                                                            |
| Purity/Purification                             | Chromatography on protein A Sepharose                                                                                                                                                                                                                                                         |
| Form/Format                                     | PBS, pH 7.4, 0.09 % sodium azide (NaN <sub>3</sub> ) for MAbs 6F9 and 2H9<br><br>0.9 % NaCl, 0.09 % sodium azide (NaN <sub>3</sub> ) for MAbs 3G7, 1C4, 1C7, 3G8 and 8H12                                                                                                                     |
| Concentration                                   | 6.3 mg/mL (varies by lot)                                                                                                                                                                                                                                                                     |
| Sequence Length                                 | 100                                                                                                                                                                                                                                                                                           |
| Applicable Applications for anti-BGLAP antibody | ELISA                                                                                                                                                                                                                                                                                         |
| Application Notes                               | Recommended pairs are (capture-detection):<br><br>2H9 - 6F9 (detects the large NH <sub>2</sub> - terminal fragment and intact hOC)<br>3G8 - 2H9 (detects only the intact hOC)                                                                                                                 |
| MAbs                                            | 3G7, 1C4, 1C7, 3G8, 2H9, 6F9, 8H12                                                                                                                                                                                                                                                            |
| MAB isotypes                                    | IgG1 for MAbs 1C4, 1C7, 3G8, 6F9, 8H12<br><br>IgG2a for MAb 2H9<br>IgG2b for MAb 3G7                                                                                                                                                                                                          |
| MAB Specifications                              | MAB: 3G8<br>Concentration: 2.0 mg/ml<br><br>MAB: 2H9<br>Concentration: 5.9 mg/ml<br><br>MAB: 6F9<br>Concentration: 6.3mg/ml<br><br>MAB: 8H12<br>Concentration: 1.7 mg/ml                                                                                                                      |
| Material Safety Note                            | This product is sold for research use only. Standard Laboratory Practices should be followed when handling this material.<br><br>Product contains sodium azide as a preservative. Although the amount of sodium azide is very small appropriate care must be taken when handling this product |
| Preparation and Storage                         | +4°C (+2...8°C allowed).                                                                                                                                                                                                                                                                      |

IMAGES

| MAb  | antigen  | Eu-hOC | Eu-hOC<br>1-19 | Eu-hOC<br>7-19 | Eu-hOC<br>15-31 | Eu-hOC<br>20-43 | Eu-bOC |
|------|----------|--------|----------------|----------------|-----------------|-----------------|--------|
| 3G7  | bOC      | +      | -              | -              | +               | +               | +      |
| 1C4  | bOC      | +      | -              | -              | +               | +               | +      |
| 1C7  | bOC      | +      | -              | -              | +               | +               | +      |
| 3G8  | bOC      | (+)*   | -              | -              | -               | -               | (+)*   |
| 2H9  | rGST-hOC | +      | -              | -              | +               | +               | +      |
| 6F9  | rGST-hOC | +      | +              | +              | +               | -               | -      |
| 8H12 | rGST-hOC | +      | +              | +              | +               | -               | +      |

Application Data

MAb 2H9 cross-reacts with bovine, rat and pig OC and is not cross-reacting with mouse OC. MAb 6F9 is not cross-reacting with bovine, rat, mouse, rabbit or pig OC. The ability of the MAbs to recognize full length human osteocalcin, tryptic 1-19, 20-43, synthetic 7-19, 15-31 and bovine osteocalcin was tested with Eu-labelled antigens. \*MAb 3G8 recognizes unlabelled human osteocalcin (hOC) and bovine osteocalcin (bOC) when tested with two-site combinations

NCBI AND UNIPROT INFORMATION

|                                  |                                                                                                                                       |
|----------------------------------|---------------------------------------------------------------------------------------------------------------------------------------|
| NCBI GI #                        | 40316933                                                                                                                              |
| NCBI GeneID                      | 632                                                                                                                                   |
| NCBI Accession #                 | NP_954642.1                                                                                                                           |
| NCBI GenBank Nucleotide #        | NM_199173.4                                                                                                                           |
| NCBI Official Full Name          | osteocalcin preproprotein                                                                                                             |
| NCBI Official Synonym Full Names | bone gamma-carboxyglutamate (gla) protein                                                                                             |
| NCBI Official Symbol             | BGLAP                                                                                                                                 |
| NCBI Official Synonym Symbols    | OC; BGP; OCN                                                                                                                          |
| NCBI Protein Information         | osteocalcin; bone Gla protein; gamma-carboxyglutamic acid-containing protein; bone gamma-carboxyglutamate (gla) protein (osteocalcin) |
| UniProt Protein Name             | Osteocalcin                                                                                                                           |
| UniProt Gene Name                | BGLAP                                                                                                                                 |
| UniProt Synonym Gene Names       | BGP                                                                                                                                   |
| UniProt Entry Name               | OSTCN_HUMAN                                                                                                                           |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/monoclonal/osteocalcin-antibody-clone-3g7-1c4-1c7-3g8-8h12-2h9-6f9-elisa/14853>