



**Qty:** 100 µg

Mouse Anti-Osteocalcin

**Catalog No.** 33-5400

**Lot No.**

## MOUSE MONOCLONAL ANTI-OSTEOCALCIN

### FORM

Lyophilized. This antibody was purified by ammonium sulfate fractionation and ion-exchange chromatography from mouse ascites fluid, dissolved in 0.15 M PBS (pH 7.4) containing 1.0% bovine serum albumin and 0.1% sodium azide. Reconstitute with 50 µl distilled water to give a 2 mg/ml stock solution.

**CLONE:** OC4-30

**ISOTYPE:** IgG<sub>2a</sub>

### IMMUNOGEN

Bovine Osteocalcin<sup>(1)</sup>. Monoclonal antibody was obtained by fusing the mouse myeloma cell-line P3U1 with spleen cells of BALB/c mouse after immunization with bovine Osteocalcin<sup>(1)</sup>.

### SPECIFICITY

OC4-30 recognizes  $\gamma$ -carboxylated residues 15-31 (does not react with heat de-carboxylated Osteocalcin).

### REACTIVITY

This product reacts with both bovine and human Osteocalcin.

| SAMPLE | ELISA <sup>(3)</sup> | WB <sup>(2)</sup> |
|--------|----------------------|-------------------|
| Bovine | +                    | +                 |
| Human  | +                    | +                 |

### BACKGROUND

This antibody can be used effectively for research of metabolic bone disease and ectopic calcification<sup>(5)</sup>.

### USAGE

The dilutions listed below are good starting points; however, optimal dilution of the antibody should be determined by the investigator for each application.

**ELISA <sup>(3)</sup>:** 1:3000 (0.67 µg/ml)

**Western blotting <sup>(2)</sup>:** 2-10 µg/ml

(cont'd)

[www.invitrogen.com](http://www.invitrogen.com)

Invitrogen Corporation • 542 Flynn Rd • Camarillo • CA 93012 • Tel: 800.955.6288 • E-mail: [techsupport@invitrogen.com](mailto:techsupport@invitrogen.com)

PI335400

(Rev 10/08) DCC-08-1089

**Important Licensing Information** - These products may be covered by one or more Limited Use Label Licenses (see the Invitrogen Catalog or our website, [www.invitrogen.com](http://www.invitrogen.com)). By use of these products you accept the terms and conditions of all applicable Limited Use Label Licenses. Unless otherwise indicated, these products are for research use only and are not intended for human or animal diagnostic, therapeutic or commercial use.

(33-5400 cont'd)

|  |                            |          |
|--|----------------------------|----------|
| <b>RELATED PRODUCTS:</b>               | Conjugate                  | Cat. No. |
| Goat x Mouse IgG (H+L)                 | Purified                   | 62-6500  |
|  | FITC                       | 62-6511  |
|  | TRITC                      | 62-6514  |
|  | Cy <sup>TM</sup> 3         | 62-6515  |
|  | Cy <sup>TM</sup> 5         | 62-6516  |
|  | HRP                        | 62-6520  |
| Goat x Mouse IgGAM (H+L)<br>(DS grade) | Alk. Phos.                 | 62-6522  |
|  | Biotin                     | 62-6540  |
|  | Sepharose <sup>®</sup> -4B | 62-6541  |
|  | Purified                   | 65-6400  |
|  | FITC                       | 65-6411  |
|  | HRP                        | 65-6420  |
|  | Alk. Phos.                 | 65-6422  |
|  | Biotin                     | 65-6440  |

#### STORAGE

Store at -20°C for long term storage. Store in aliquots, avoid repeated freezing and thawing.

#### REFERENCES

1. Hauschka, P.U., Lian, J.B., Gallop, P.M., (1975) *Proc. Natl. Acad. Sci. U.S.A.*, 72:3925.
2. Towbin, H., Staehelin, T. and Gordon, J. (1979) *Proc. Natl. Acad. Sci. U. S. A.* 76:4350.
3. Engvall, E. and Perlmann, P. (1972) *J. Immunol.*, 109:129.
4. Mancini, G., Carbonara, A.O. and Heremans, J.F. (1965) *Immunochemistry*, 2:235.
5. Koyama, N., Ohara, K., Yokota, H., Kurome, T., Katayama, M., Hino, F., Kato, I. and Akai, T. (1991) *J. Immunological Methods*, 139:17.

**NOT FOR DIAGNOSTIC USE**

[www.invitrogen.com](http://www.invitrogen.com)

Invitrogen Corporation • 542 Flynn Rd • Camarillo • CA 93012 • Tel: 800.955.6288 • E-mail: [techsupport@invitrogen.com](mailto:techsupport@invitrogen.com)

PI335400

(Rev 10/08) DCC-08-1089

**Important Licensing Information** - These products may be covered by one or more Limited Use Label Licenses (see the Invitrogen Catalog or our website, [www.invitrogen.com](http://www.invitrogen.com)). By use of these products you accept the terms and conditions of all applicable Limited Use Label Licenses. Unless otherwise indicated, these products are for research use only and are not intended for human or animal diagnostic, therapeutic or commercial use.