



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_{2a}

IMMUNOGEN

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

SPECIFICITY

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

REACTIVITY

This product reacts with both bovine and human Osteocalcin.

SAMPLE	ELISA ⁽³⁾	WB ⁽²⁾
Bovine	+	+
Human	+	+

BACKGROUND

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

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 ⁽³⁾: 1:3000 (0.67 µg/ml)
Western blotting ⁽²⁾: 2-10 µg/ml

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PI335400

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(33-5400 cont'd)

RELATED PRODUCTS:	Conjugate	Cat. No.
Goat x Mouse IgG (H+L)	Purified	62-6500
	FITC	62-6511
	TRITC	62-6514
	Cy™3	62-6515
	Cy™5	62-6516
	HRP	62-6520
	Alk. Phos.	62-6522
	Biotin	62-6540
	Sepharose®-4B	62-6541
	Goat x Mouse IgGAM (H+L) (DS grade)	Purified
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.

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