Bovine Osteocalcin Monoclonal Antibody

ORDERING INFORMATION
Catalog No.: 50116
Clone No.: OCG3
Size: 100ug
Format: Antibody was purified by column chromatography, dissolved in 20mM TBS, pH7.5, containing 1.0% bovine serum albumin, and then lyophilized. The lyophilized antibody does not contain preservative.

BACKGROUND
Osteocalcin is a noncollagenous, 49 amino acid glutamate-rich polypeptide bone matrix protein with a molecular weight of about 5800Da. Osteoblasts produce osteocalcin and incorporate it into the bone matrix. Osteocalcin is released into the circulation from the matrix during bone resorption and, therefore, is considered a marker of bone turnover rather than a specific marker of bone formation.

SPECIFICATION SUMMARY
Antigen: Bovine osteocalcin
Host Species: Mouse
Antibody Subtype: IgG3
Specificity: Epitope within residues 21-31; human, bovine, rat, rabbit, pig, goat, and sheep.

APPLICATIONS
Sandwich ELISA: 1-10ug/ml with immobilized antigen, pair with catalog no. 50120.
Immunoblotting: 1-10ug/ml, reducing or non-reducing conditions.
Immunohistochemistry: 1-10ug/ml, frozen or paraffin-embedded tissue after proteinase K (0.4m/ml) antigen retrieval.

Endusers should determine optimal concentrations for their applications.

DILUTION INSTRUCTIONS
Dissolve lyophilized antibody in 50ul of distilled water (2.0mg/ml final concentration) then dilute further for applications in PBS or media that is identical to that used in the assay system.

STORAGE AND STABILITY
Store stock solution (2.0 mg/ml) in aliquots at -20°C for 1 year, or at 4°C for 6 months after adding 0.1% sodium azide. Avoid repeated freeze-thaw cycles. Diluted antibody should not be stored.

For in vitro investigational use only. Not intended for therapeutic or diagnostic procedures.