Human Osteocalcin Antibody

Monoclonal Mouse IgG_{2A} Clone # 582020

Catalog Number: MAB11327

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human Osteocalcin in direct ELISA.
Source	Monoclonal Mouse IgG_{2A} Clone # 582020
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Osteocalcin/KLH containing peptide Accession # P02818
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 µm filtered solution in PBS.

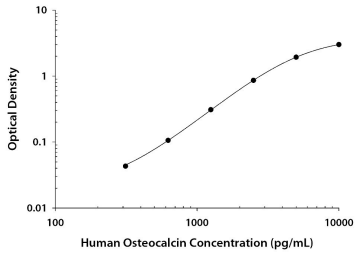
APPLICATIONS

Please Note: *Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.*

ELISA	This antibody functions as an ELISA capture antibody when paired with Mouse Anti-Human Osteocalcin Monoclonal Antibody (Catalog # MAB113271). This product is intended for assay development on various assay platforms requiring antibody pairs. We recommend the Human Osteocalcin DuoSet ELISA Kit (Catalog # DY1419-05) for convenient development of a sandwich ELISA.

DATA

ELISA



Human Osteocalcin ELISA Standard Curve. Recombinant Human Osteocalcin protein was serially diluted 2-fold and captured by Mouse Anti-Human Osteocalcin Monoclonal Antibody (Catalog # MAB11327) coated on a Clear Polystyrene Microplate (Catalog # DY990). Mouse Anti-Human Osteocalcin Monoclonal Antibody (Catalog # MAB113271) was biotinylated and incubated with the protein captured on the plate. Detection of the standard curve was achieved by incubating Streptavidin-HRP (Catalog # DY998) followed by Substrate Solution (Catalog # DY999) and stopping the enzymatic reaction with Stop Solution (Catalog # DY994).

PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.5 mg/mL in sterile PBS.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
Stability & Storage	**Use a manual defrost freezer and avoid repeated freeze-thaw cycles.** • 12 months from date of receipt, -20 to -70 °C as supplied. • 1 month, 2 to 8 °C under sterile conditions after reconstitution. • 6 months, -20 to -70 °C under sterile conditions after reconstitution.

BACKGROUND

Osteocalcin, also known as Bone γ-Carboxyglutamic Acid Protein, is a secreted protein whose expression is restricted to cells of the osteoblast lineage (1). It has been frequently used as a marker for osteoblast lineage cells.

References:

1. Lian, J.B. *et al.* (1999) Vitamin. Horm. **55**:443.

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