

Human Osteocalcin Antibody

Monoclonal Mouse IgG2B Clone # 190124

Catalog Number: MAB113271

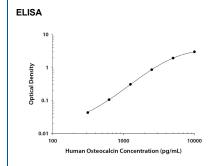
DESCRIPTION	
Species Reactivity	Human
Specificity	Detects human Osteocalcin in direct ELISA.
Source	Monoclonal Mouse IgG _{2B} Clone # 190124
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Osteocalcin/KLH containing peptide Accession # P02818
Formulation	Lyophilized 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.

This antibody functions as an ELISA detection antibody when paired with Mouse Anti-Human Osteocalcin Monoclonal Antibody (Catalog # MAB11327). 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



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

Stability & Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles.
	*Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.
Reconstitution	Reconstitute at 0.5 mg/mL in sterile PBS.

- 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.

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.

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

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