

# **Human Osteocalcin Antibody**

Monoclonal Mouse IgG<sub>2B</sub> Clone # 582014 Catalog Number: MAB113272

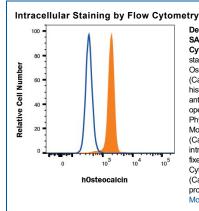
DESCRIPTION	
Species Reactivity	Human
Specificity	Detects human Osteocalcin in direct ELISA.
Source	Monoclonal Mouse IgG <sub>2B</sub> Clone # 582014
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Osteocalcin/KLH containing peptide Accession # P02818
Formulation	Lyophilized 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.

	Recommended Concentration	Sample
Intracellular Staining by Flow Cytometry	0.25 μg/10 <sup>6</sup> cells	SAOS-2 cells fixed and permeabilized with Flow Cytometry Fixation Buffer (Catalog # FC004).

## DATA



**Detection of Osteocalcin in** SAOS-2 cells by Flow Cytometry. SAOS-2 cells were stained with Mouse Anti-Human Osteocalcin Monoclonal Antibody (Catalog # MAB113272, filled histogram) or isotype control antibody (Catalog # MAB0041, open histogram), followed by Phycoerythrin-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # F0102B). To facilitate intracellular staining, cells were fixed and permeabilized with Flow Cytometry Fixation Buffer (Catalog # FC004). View our protocol for Staining Intracellular Molecules.

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  $\gamma$ -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.

