

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human Osteocalcin in direct ELISA.
Source	Monoclonal Mouse IgG _{2B} Clone # 582014
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Osteocalcin/KLH containing peptide Accession # P02818
Conjugate	Alexa Fluor 647 Excitation Wavelength: 650 nm Emission Wavelength: 668 nm
Formulation	Supplied 0.2 mg/mL in a saline solution containing BSA and Sodium Azide. *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

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.

Intracellular Staining by Flow Cytometry	Titration recommended for optimal concentration with starting range of 0.1-1 µg/1 million cells. Sample used for this experiment was SAOS-2 cells fixed and permeabilized with Flow Cytometry Fixation Buffer (Catalog # FC004).
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PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Protect from light. Do not freeze. • 12 months from date of receipt, 2 to 8 °C as supplied.

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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