

DESCRIPTION

Species Reactivity	Human/Rat
Specificity	Detects human Osteocalcin in direct ELISAs.
Source	Monoclonal Mouse IgG ₁ Clone # 190125
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Human Osteocalcin synthetic peptide YLYQWLGAPVPYPDPLEPRREVCELNPDCELDADHIGFQEAYRRFYGPV 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. See Certificate of Analysis for details. *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.

	Recommended Concentration	Sample
Intracellular Staining by Flow Cytometry	0.25-1 µg/10 ⁶ cells	Saos-2 human osteosarcoma cell line and human osteoblasts were fixed with paraformaldehyde and permeabilized with saponin

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.

PRODUCT SPECIFIC NOTICES

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