Human STRO-1
Alexa Fluor® 350-conjugated Antibody

Monoclonal Mouse IgM Clone # STRO-1
Catalog Number: FAB1038U
100 µg

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human STRO-1.
Source	Monoclonal Mouse IgM Clone # STRO-1
Purification	IgM-specific Affinity-purified from hybridoma culture supernatant
Immunogen	Human $CD34^+$ bone marrow cells
Conjugate	Alexa Fluor 350 Excitation Wavelength: 346 nm Emission Wavelength: 442 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
Flow Cytometry	0.25-1 µg/10^6 cells	MG-63 human osteosarcoma cell line

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

STRO-1 is a cell surface protein expressed by bone marrow stromal cells and erythroid precursors. The frequency of colony forming units-fibroblasts (CFU-F) was enriched 100-fold in the STRO-1^+/Glycophorin A^- population from bone marrow cells (1). The subset of marrow cells that expresses the STRO-1 antigen is capable of differentiating into multiple mesenchymal lineages including hematopoiesis-supportive stromal cells with a vascular smooth muscle-like phenotype, adipocytes, osteoblasts, and chondrocytes (2).

References:

1. Simmons, P.J. and B. Torok-Storb (1991) Blood **78**:55.
2. Dennis, J.E. *et al*. (2002) Cells Tissues Organs **170**:73.

PRODUCT SPECIFIC NOTICES

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