

Mouse anti-Hu STRO-1 Purified, clone STRO-1 (Monoclonal)

Clone no. STRO-1

MONOSAN

Product name	Mouse anti-Hu STRO-1 Purified, clone STRO-1 (Monoclonal)
Host	Mouse
Applications	FC , ICC
Species reactivity	Human, Rabbit, Rat
Conjugate	-
Immunogen	Human CD34 positive bone marrow cells
Isotype	IgM lambda
Clonality	Monoclonal
Clone number	STRO-1
Size	0.1 mg
Concentration	1 mg/ml
Format	Purified by sequential steps of physicochemical fractionation (differential
Storage buffer	Tris buffered saline (TBS), pH 8.0, 15 mM sodium azide
Storage until expiry date	2-8°C

FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES

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Additional info

STRO-1 is a cell surface antigen expressed by stromal elements in human bone marrow, identified by monoclonal antibody STRO-1. Approximately 10% of mononuclear cells, greater than 95% of which are nucleated erythroid precursors, are STRO-1 positive, whereas the CFU-GM (colony-forming unit granulocyte-macrophage), BFU-E (erythroid burst) and CFU-Mix (mixed colonies) committed progenitor cells are negative. CFU-F (fibroblast colony-forming cells) are present exclusively in the STRO-1 positive population. When plated under long-term bone marrow culture conditions, STRO-1 positive cells generate adherent cell layers containing multiple stromal cell types, including adipocytes, smooth muscle cells, osteoblasts, chondrocytes, and fibroblastic elements. In combination with glycophorin A, STRO-1 is a useful marker for identification of mesenchymal stem cells. STRO-1 and CD117 are markers for osteosarcoma cells.

SpecificityThe mouse monoclonal antibody W5C5 recognizes an extracellular epitope of SUSD2, a type I transmembrane protein expressed on mesenchymal stem-like cells. This antibody selectively binds to a MSCs in both bone marrow and endometrium or tonsil, and can be used for their identification and isolation.

Application detailsFlow cytometry: Recommended dilution: 1-5 µg/ml.

References

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