

ARG54296
anti-STRO1 antibody [STRO-1] (APC)Package: 50 µg
Store at: 4°C

Summary

Product Description	APC-conjugated Mouse Monoclonal antibody [STRO-1] recognizes STRO1
Tested Reactivity	Hu
Tested Application	FACS
Specificity	The clone STRO-1 recognizes the cell surface antigen STRO-1 expressed by bone marrow mesenchymal stromal cells and nucleated erythroid precursors, but not by committed hematopoietic progenitors.
Host	Mouse
Clonality	Monoclonal
Clone	STRO-1
Isotype	IgM
Target Name	STRO1
Species	Human
Immunogen	Human CD34 positive bone marrow cells
Conjugation	APC

Application Instructions

Application table	Application	Dilution
	FACS	1 - 5 µg/ml

Application Note * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

Properties

Form	Liquid
Purification Note	The purified antibody is conjugated with cross-linked Allophycocyanin (APC) under optimum conditions. The conjugate is purified by size-exclusion chromatography.
Buffer	TBS, 15 mM Sodium azide and 0.2% (w/v) high-grade protease free BSA
Preservative	15 mM Sodium azide
Stabilizer	0.2% (w/v) high-grade protease free BSA
Concentration	0.1 mg/ml
Storage instruction	Aliquot and store in the dark at 2-8°C. Keep protected from prolonged exposure to light. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

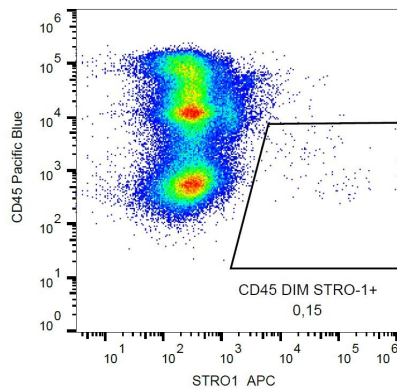
Background

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.

Research Area

Controls and Markers antibody

Images



ARG54296 anti-STRO1 antibody [STRO-1] (APC) FACS image

Flow Cytometry: Human peripheral blood stained with ARG54296 anti-STRO1 antibody [STRO-1] (APC) and anti-CD45 antibody (Pacific Blue).