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PE Mouse Anti-Human STRO-1 Monoclonal Antibody

CLX519PE

| | |
|-----------------------------|--|
| Clone: | STRO-1 |
| Isotype: | Mouse IgM |
| Specificity: | The mouse monoclonal antibody 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. |
| Immunogen: | Human CD34 positive bone marrow cells. |
| Species Reactivity: | Human |
| Preparation: | The purified antibody is conjugated with R-Phycoerythrin (PE) under optimum conditions. The conjugate is purified by size-exclusion chromatography. |
| Concentration: | 0.1 mg/ml |
| Storage Buffer: | The reagent is provided in stabilizing Tris buffered saline (TBS) solution containing 15 mM sodium azide. |
| Storage / Stability: | Store in the dark at 2-8°C. Do not freeze. Avoid prolonged exposure to light. Do not use after expiration date stamped on vial label. |
| Usage: | The reagent is designed for Flow Cytometry analysis. |
| 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. |

Continued Overleaf.....

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Laboratory Reagent For Research Use Only.