

30-1185PE-Cy5: PE-Cy5 Conjugated Anti-CD34 / Mucosialin Monoclonal Antibody (Clone:4H11[APG])

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| Clonality : | Monoclonal |
| Clone Name : | 4H11[APG] |
| Application : | FACS |
| Reactivity : | Human |
| Conjugate : | R-PE/CY5 |
| Gene : | CD34 |
| Gene ID : | 947 |
| Uniprot ID : | P28906 |
| Isotype : | Mouse IgG1 |
| Immunogen Information : | Permanent human cell line derived from peripheral leucocytes of a patient suffering from chronic myeloid leukaemia. |

Description

CD34 is a highly glycosylated monomeric 111-115 kDa surface protein, which is present on many stem cell populations. It is a well established stem cell marker, though its expression on human hematopoietic stem cells is reversible. CD34 probably serves as a surface receptor that undergoes receptor-mediated endocytosis and regulates adhesion, differentiation and proliferation of hematopoietic stem cells and other progenitors. CD34 expression is likely to represent a specific state of hematopoietic development that may have altered adhering properties with expanding and differentiating capabilities in both in vitro and in vivo conditions.

Product Info

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| Amount : | 100 tests |
| Purification : | Purified antibody is conjugated with activated tandem dye of R-phycoerythrin-cyanine 5 (PE-Cy5) under optimum conditions and unconjugated antibody and free fluorochrome are removed by size-exclusion chromatography. |
| Content : | Formulation: Stabilizing phosphate buffered saline (PBS), pH 7.4, 15 mM sodium azide |
| Storage condition : | Store at 2-8°C. Protect from prolonged exposure to light. Do not freeze. |

Application Note

Flow cytometry: The reagent is designed for analysis of human blood cells using 4 µl reagent / 100 µl of whole blood or 106 cells in a suspension. The content of a vial (0.4 ml) is sufficient for 100 tests.

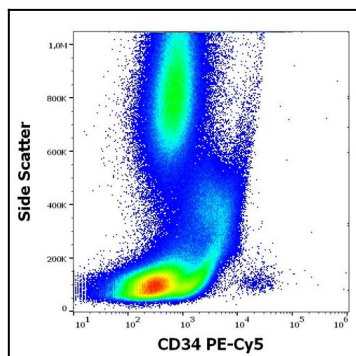


Figure 1: Flow cytometry surface staining pattern of human peripheral whole blood stained using anti-human CD34 (4H11[APG]) PE-Cy5 antibody (4 µl reagent / 100 µl of peripheral whole blood).

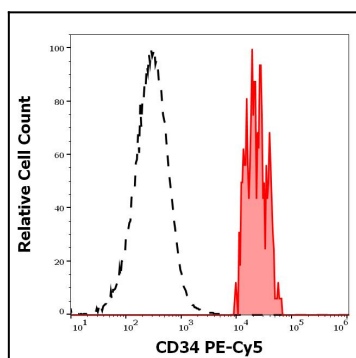


Figure 2: Separation of human CD34 positive stem cells (red-filled) from lymphocytes (black-dashed) in flow cytometry analysis (surface staining) of human peripheral whole blood stained using anti-human CD34 (4H11[APG]) PE-Cy5 antibody (4 µl reagent / 100 µl of peripheral whole blood).