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

Clonality: Monoclonal **Clone Name:** 4H11[APG] Application: **FACS** Reactivity: Human 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

Amount: 100 tests

Purified antibody is conjugated with activated Peridinin-Chlorophyll Protein (PerCP) under

Purification: 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 10 μ l reagent / 100 μ l of whole blood or 106 cells in a suspension. The content of a vial (1 ml) is sufficient for 100 tests.

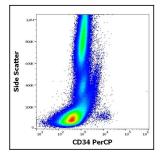


Figure 1: Flow cytometry surface staining pattern of human peripheral whole blood stained using anti-human CD34 (4H11[APG]) PerCP antibody ($10 \mu l$ reagent / $100 \mu l$ of peripheral whole blood).



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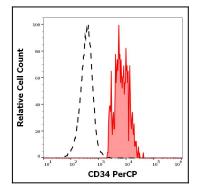


Figure 2: Separation of human CD34 positive stem cells (red-filled) from lymphocytes (black-dashed) in flow cytometry analysis (surface staining) of human peripheral whole blood stained using anti-human CD34 (4H11[APG]) PerCP antibody (10 μ l reagent / 100 μ l of peripheral whole blood).