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## 30-2080: Anti-CD34 Monoclonal Antibody (Clone:581)-FITC Conjugated

Clonality: Monoclonal

Clone Name: 581
Application: FACS

**Reactivity:** Human, Non-Human Primates

Conjugate: FITC
Gene: CD34
Gene ID: 947
Uniprot ID: P28906
Alternative Name: CD34
Isotype: Mouse IgG1

## **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 fluorescein isothiocyanate (FITC) under optimum conditions

**Purification:** and unconjugated antibody and free fluorochrome are removed by size-exclusion

chromatography.

**Content:** Stabilizing phosphate buffered saline (PBS), pH 7.4, 15 mM sodium azide **Storage condition:** Store in the dark at 2-8°C. Do not freeze. Avoid prolonged exposure to light.

## **Application Note**

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

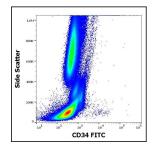


Figure 1: Flow cytometry surface staining pattern of human peripheral whole blood stained using anti-human CD34 FITC antibody