

## Anti-Human CD34 PE

Catalogue Number : 06421-60

RUO: For Research Use Only. Not for use in diagnostic procedures.

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### Product Information

**Clone:** 581

**Format/Conjugate:** PE

**Concentration:** 0.5 mg/mL

**Reactivity:** Human

**Laser:** Blue (488nm), Yellow/Green (532-561nm)

**Peak Emission:** 578nm

**Peak Excitation:** 496nm

**Filter:** 585/40

**Brightness (1=dim,5=brightest):** 5

**Isotype:** Mouse IgG1, kappa

**Formulation:** Phosphate-buffered aqueous solution, ≤0.09% Sodium azide, may contain carrier protein/stabilizer, pH7.2.

**Storage:** Product should be kept at 2-8°C and protected from prolonged exposure to light.

**Applications:** FC

### Description

The 581 monoclonal antibody specifically reacts with the Class III epitope of CD34, a heavily O-glycosylated transmembrane glycoprotein. CD34 is reported to be involved in signal transduction and cell adhesion. It is expressed on hematopoietic progenitors, pluripotent stem cells fibroblasts and tumor cells.

### Preparation & Storage

The product should be stored undiluted at 4°C and should be protected from prolonged exposure to light. Do not freeze. The monoclonal antibody was purified utilizing affinity chromatography and unreacted dye was removed from the product.

### Application Notes

The antibody has been analyzed for quality through the flow cytometric analysis of the relevant cell type. The antibody can be used at less than or equal to 5 µL per test. A test is the amount of antibody required to stain a cell sample in the final volume of 100 µL.

### References

1. Zola, H. (2007). Leukocyte and stromal cell molecules: The CD markers. John Wiley ; Sons.
2. Egeland, T., Tjøstøl, G., Steen, R., Gaudernack, G., ; Thorsby, E. (1993, February). Positive selection of bone marrow-derived CD34 positive cells for possible stem cell transplantation. In: Transplantation proceedings; (Vol. 25, No. 1 Pt 2, pp. 1261-1263).
3. Leucocyte typing IV: white cell differentiation antigens. Oxford University Press, 1989.