

## Anti-Human CD34 PE

Catalog Number :06411-60

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

### Product Information

**Clone:** 4H11

**Format/Conjugate:** PE

**Concentration:** 5 uL (0.5 ug)/test

**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 4H11 monoclonal antibody specifically reacts with the Class III epitope of CD34 (mucosialin), a transmembrane phosphoglycoprotein. It is expressed on most hematopoietic progenitors, pluripotent stem cells 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. Elknerová, K., Lacinová, Z., Soucek, J., Marinov, I., Stockbauer, P. (2007). Growth inhibitory effect of the antibody to hematopoietic stem cell antigen CD34 in leukemic cell lines.; NEOPLASMA-BRATISLAVA-; 54(4), 311.
2. Singh, V. K., Tsuji, K., Sharma, P. B., Chandra, R. MULTIDIMENSIONAL ROLE OF CD34 PROTEIN IN HEMATOPOIETIC STEM CELL BIOLOGY.
3. Krause, D. S., Fackler, M. J., Civin, C. I., May, W. S. (1996). CD34: structure, biology, and clinical utility.; Blood; 87(1), 1-13.