

## Anti-Mouse CD34 FITC

Catalog Number :06412-50

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

### Product Information

**Clone:** RAM34

**Format/Conjugate:** FITC

**Concentration:** 0.5 mg/mL

**Reactivity:** Mouse

**Laser:** Blue (488nm)

**Peak Emission:** 520nm

**Peak Excitation:** 494nm

**Filter:** 530/30

**Brightness (1=dim,5=brightest):** 3

**Isotype:** IgG2a, 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 RAM34 monoclonal antibody specifically reacts with mouse CD34 (mucosialin), a highly glycosylated transmembrane phosphoglycoprotein. It is expressed on most hematopoietic progenitors, pluripotent stem cells, tumor cells and some nervous tissue. CD34 is a common marker for human hematopoietic stem or progenitor cells and on endothelial cells it plays a role in cell adhesion.

### 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. Osawa, M., Hanada, K. I., Hamada, H., Nakauchi, H. (1996). Long-term lymphohematopoietic reconstitution by a single CD34-low/negative hematopoietic stem cell.; *Science*,;273(5272), 242-245.
2. Ema, H., Morita, Y., Yamazaki, S., Matsubara, A., Seita, J., Tadokoro, Y., ... Nakauchi, H. (2007). Adult mouse hematopoietic stem cells: purification and single-cell assays.; *Nature protocols*,;1(6), 2979-2987.
3. Iida, M., Ihara, S., Matsuzaki, T. (2007). Hair cycle-dependent changes of alkaline phosphatase activity in the mesenchyme and epithelium in mouse vibrissal follicles.; *Development, growth differentiation*,;49(3), 185-195.