

# Anti-Human CD34 (581)



REF



FITC	34F-100T	100 test	20 µL/test
PE	34PE-100T	100 test	20 µL/test
PerCP-Cyanine5.5	34PP5,5-100T	100 test	5 µL/test
APC	34A-100T	100 test	20 µL/test

RUO

## 1. PRODUCT DESCRIPTION

**Clone:** 581;  
**Isotype:** IgG1;  
**Tested application:** flow cytometry;  
**Immunogen:** The anti-CD34 monoclonal antibody derives from human CD34 cells;  
**Species reactivity:** Human, Cross-Reactivity: Cynomolgus;  
**Storage instruction:** store in the dark at 2-8 °C;  
**Storage buffer:** aqueous buffered solution containing protein stabilizer and 0.09% sodium azide (NaN<sub>3</sub>);  
**Recommended usage:** Immunostep's CD34, clone 581, is a monoclonal antibody intended for identification and enumeration of hematopoietic progenitor cell antigen CD34 also known as gp105-120, expressed on the majority of hematopoietic stem/progenitor cells. This reagent is effective for direct immunofluorescence staining of human tissue for flow cytometric analysis using 1 test for 10<sup>6</sup> cells;  
**Presentation:** liquid;  
**Source:** Supernatant proceeding from an in vitro cell culture of a cell hybridoma;  
**Purification:** Affinity chromatography;  
**Other names:** Hematopoietic progenitor cell antigen CD34, Gp105-120, My10;  
**Gene ID:** 947;  
**Molecular weight:** 105 - 120 kDa.

## 2. ANTIGEN DETAILS

**Large description:** The CD34 antigen is a single-chain transmembrane glycoprotein. The antigen is associated with human hematopoietic progenitor cells and is a differentiation stage-specific leucocyte antigen.

The CD34 antigen is present on immature hematopoietic precursor cells and all hematopoietic colony-forming cells in bone marrow and blood, including unipotent and pluripotent progenitors. The CD34 antigen is present on early myeloid cells that express the CD33 antigen but lack the CD14 and CD15 antigens and on early erythroid cells that express the CD71 antigen and dimly express the CD45 antigen. The CD34 antigen is also found on capillary endothelial cells and approximately 1% of human thymocytes. Normal peripheral blood lymphocytes, monocytes, granulocytes, and platelets do not express the CD34 antigen.<sup>[1-4]</sup>

## 3. WARRANTY

Warranted only to conform to the quantity and contents stated on the label or in the product labelling at the time of delivery to the customer. Immunostep disclaims hereby other warranties.

Immunostep's sole liability is limited to either the replacement of the products or refund of the purchase price.

## 4. ADDITIONAL INFORMATION

For research use only. Not for diagnostic use.

Not for resale. Immunostep will not be responsible of violations that may occur with the use of this product. Any use of this product other than the specified in this document is strictly prohibited.

Unless otherwise indicated by Immunostep by written authorization, this product is intended for research only and is not to be used for any other purpose, including without limitation, for human or animal diagnostic, therapeutic or commercial purposes.

Please, refer to [www.immunostep.com](http://www.immunostep.com) technical support for more information.

## 5. REFERENCES

- Knapp W. Leucocyte typing IV : white cell differentiation antigens. Oxford: Oxford University Press; 1989.
- Molgaard HV, Spurr NK, Greaves MF. The hemopoietic stem cell antigen, CD34, is encoded by a gene located on chromosome 1. *Leukemia* 1989 Nov;3(11):773-6.
- Hoffkes HG, Lowe JA, Pedersen RO, Schmidte G, McDonald DF. BIRMA-K3, a new monoclonal antibody for CD34 immunophenotyping and stem and progenitor cell assay. *J Hematother* 1996 Jun;5(3):261-70.
- Orfao A, Chillon MC, Bortoluci AM, Lopez-Berges MC, Garcia-Sanz R, Gonzalez M, et al. The flow cytometric pattern of CD34, CD15 and CD13 expression in acute myeloblastic leukemia is highly characteristic of the presence of PML-RARalpha gene rearrangements. *Haematological* 1999 May;84(5):405-12.

## 6. EXPLANATION OF SYMBOLS



Form

REF

Catalog reference



Contains sufficient for <n> test



Quantity per test



Regulatory Status

RUO

Research Use Only



Manufacturer

## 7. MANUFACTURED BY:



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