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## 30-1028: Anti-CD34 / Mucosialin Monoclonal Antibody (Clone:QBEnd-10)-Azide free

Clone Name : Monoclonal QBEnd-10

**Application :** Functional Assay, IP, ICC, IHC, FACS, WB, IF

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

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

Immunogen Information: Human endothelial vesicles

## **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: 0.1 mg

**Purification :** Purified by protein-A affinity chromatography

**Storage condition :** Store at 2-8°C. Do not freeze.

## **Application Note**

Functional application: The antibody QBEnd-10 induces homotypic adhesion of leukemic cell line.

Flow cytometry: Recommended dilution: 5 µg/ml.

Immunohistochemistry (paraffin sections): Recommended dilution: 2-8  $\mu$ g/ml. Western blotting: Recommended dilution: 1-2  $\mu$ g/ml, positive control: TF-1 cells.

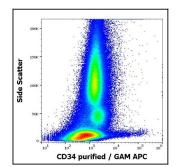


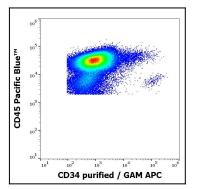
Figure-1: Flow cytometry surface staining pattern of human peripheral whole blood stained using anti-human CD34 (QBEnd-10) purified antibody (concentration in sample 0,6 νg/ml, GAM APC).





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Figure-2: Flow cytometry multicolor surface staining of human peripheral blood stained using anti-human CD34 (QBEnd-10) purified antibody (concentration in sample 0,6  $\hat{l}^{1}$ /4g/ml, GAM APC, red-filled) and anti-human CD45 (MEM-28) Pacific Blue<sup>TM</sup> antibody (10  $\hat{l}^{1}$ /4l reagent / 100  $\hat{l}^{1}$ /4l of peripheral whole blood).

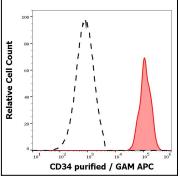


Figure-3: Separation of human CD45dim CD34 positive stem cells (red-filled) from human lymphocytes (black-dashed) in flow cytometry analysis (surface staining) of peripheral whole blood stained using anti-human CD34 (QBEnd-10) purified antibody (concentration in sample  $0.6 \, \hat{l}_4$ q/ml, GAM APC).

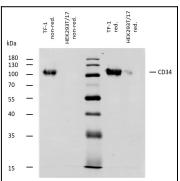


Figure-4: Western blotting analysis of human CD34 using mouse monoclonal antibody QBEnd-10 on lysates of TF-1 cell line and HEK293T/17 cell line (CD34 non-expressing cell line; negative control) under non-reducing and reducing conditions. Nitrocellulose membrane was probed with 2  $\mu$ g/ml of mouse anti-CD34 monoclonal antibody QBEnd-10 followed by IRDye800-conjugated anti-mouse IgG1 secondary antibody. A specific band was detected for CD34 protein at approximately 110 kDa.

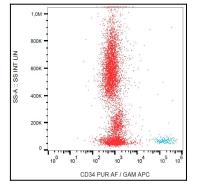


Figure-5: Flow cytometry analysis (surface staining) of CD34 in human peripheral blood with anti-CD34 (QBEnd-10) azide free.