Data Sheet (Cat.No.TMAB-07404)

TargetMol

Anti-human CD34 Antibody (3W683)

Product Details

Ig Type:	Mouse IgG1
Reactivity:	Human
Molecular Weight:	Theoretical: 39 kDa. Actual: 105-120 kDa.
Clone:	3W683
Purification:	Protein G purified

Applications

Verified Activity:	Blank control: TF-1. Primary Antibody (green line): Mouse Anti-human CD34 antibody (TMAB-07404) Dilution: 0.5 μg/Test; Secondary Antibody (white blue line) : Goat anti-mouse IgG-FITC Dilution: 0.5 μg/Test. Isotype control (orange line): Normal Mouse IgG Protocol The cells were incubated in 5% BSA to block non-specific protein-protein interactions for 30 min at room temperature. Cells stained with Primary Antibody for 30 min at room temperature. The secondary antibody used for 40 min at room temperature. Acquisition of 20,000 events was performed.
Application:	FCM
Recommended	FCM: 0.5μg/Test

Properties

Stability & Storage:	Store at 2°C-8°C for 1 month. Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.
Shipping:	Shipping with blue ice.

Antigen Details

Immunogen:	KLH conjugated synthetic peptide: human CD34
Antigen Species:	Human
Gene ID:	947
Uniprot ID:	P28906

Research Background

The highly glycosylated 75-120 kD antigen CD34 is possibly an adhesion molecule with a putative role in early hematopoiesis by mediating the attachment of stem cells to the bone marrow extracellular matrix or directly to stromal cells. It could act as a scaffold for the attachment of lineage specific glycans, allowing stem cells to bind to lectins expressed by stromal cells or other marrow components. CD34 is thought to have a role in presenting carbohydrate ligands to selectins. The intracellular chain of the CD34 antigen is a site of phosphorylation by activated protein kinase C, suggesting a putative role in signal transduction. Two isoforms of CD34 have been reported to be generated by alternative splicing. CD34 is highly expressed on hematopoietic progenitors, as well as

on endothelial cells, brain, and testis. Staining for CD34 has been used to measure angiogenesis, which reportedly predicts tumor recurrence.

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