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# Product datasheet for AM26038FC-N

## CD34 Mouse Monoclonal Antibody [Clone ID: QBEnd-10]

### Product data:

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| **Product Type:** | Primary Antibodies |
| **Clone Name:** | QBEnd-10 |
| **Applications:** | FC |
| **Recommended Dilution:** | Flow Cytometry analysis of human blood cells using 20 µl reagent / 100 µl of whole blood or $10^6$ cells in a suspension.<br>The content of a vial (2 ml) is sufficient for 100 tests. |
| **Reactivity:** | Human, Primate |
| **Host:** | Mouse |
| **Isotype:** | IgG1 |
| **Clonality:** | Monoclonal |
| **Immunogen:** | Human endothelial vesicles |
| **Specificity:** | This antibody reacts with Class II epitope on CD34 (Mucosialin), a 110-115 kDa monomeric transmembrane phosphoglycoprotein expressed on hematopoietic progenitors cells and on the most pluripotential stem cells; it is gradually lost on progenitor cells. This antibody has been also used as an endothelial marker. |
| **Formulation:** | Phosphate buffered saline (PBS) solution containing 15mM sodium azide<br>Label: FITC<br>State: Liquid purified Ig fraction<br>Label: Conjugated with Fluorescein isothiocyanate under optimum conditions. The reagent is free of unconjugated and adjusted for direct use. |
| **Conjugation:** | FITC |
| **Storage:** | Store the antibody at 2 - 8 °C. DO NOT FREEZE! This product is photosensitive and should be protected from light. |
| **Stability:** | Shelf life: one year from despatch. |
| **Gene Name:** | CD34 molecule |
| **Database Link:** | Entrez Gene 947 Human<br>P28906 |

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| **Background:** | 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. |
| **Synonyms:** | Hematopoietic progenitor cell marker |
| **Protein Families:** | Adult stem cells, Cancer stem cells, Druggable Genome, Embryonic stem cells, ES Cell Differentiation/IPS, Transmembrane |
| **Protein Pathways:** | Cell adhesion molecules (CAMs), Hematopoietic cell lineage |