

Product datasheet for **SM3018APC**

CD34 Class III Mouse Monoclonal Antibody [Clone ID: 4H11]

Product data:

| | |
|-----------------------|--|
| Product Type: | Primary Antibodies |
| Clone Name: | 4H11 |
| Applications: | FC |
| Recommended Dilution: | Flow Cytometry analysis of human blood cells using 10 µl reagent / 100 µl of whole blood or 10 ⁶ cells in a suspension. |
| Reactivity: | Human |
| Host: | Mouse |
| Isotype: | IgG1 |
| Clonality: | Monoclonal |
| Immunogen: | Permanent human cell line derived from peripheral leucocytes of a patient suffering from chronic myeloid leukaemia |
| Specificity: | This antibody reacts with Class III 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. The antibody 4H11 [APG] completely blocks binding of Class II antibody QBEnd10 and Class III antibodies BIRMA K3 and 8G12 on KG1a cell line. |
| Formulation: | Phosphate buffered saline (PBS) Label: APC State: Liquid Ig fraction Preservative: 15 mM Sodium Azide Label: Conjugated with cross-linked Allophycocyanin (APC) under optimum conditions. The conjugate is purified by size-exclusion chromatography and adjusted for direct use. |
| Conjugation: | APC |
| Storage: | Store undiluted 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 |



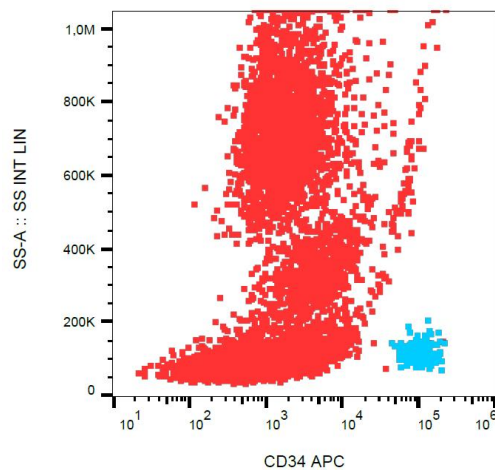
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Database Link: [Entrez Gene 947 Human P28906](#)

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

Product images:



Surface staining of CD34+ cells in human peripheral blood with anti-human CD34 (4H11[APG]) APC.