

Product datasheet for SM3018P

OriGene Technologies, Inc.

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

Product data:

Product Type: Primary Antibodies

Clone Name: 4H11

Applications: FC, IF, IHC, WB

Recommended Dilution: Flow Cytometry: 2 µg/ml.

Western blot (non-reducing conditions): 2 µg/ml. *Positive control:* Kg-1a human leukemia cell lysate. *Negative control:* JURKAT human leukemia T-cell line.

Sample preparation: Resuspend approx. 50 mil. cells in 1 ml cold Lysis buffer (1% laurylmaltoside in 20 mM Tris/Cl, 100 mM NaCl pH 8.2, 50 mM NaF including Protease inhibitor Cocktail). Incubate 60 min on ice. Centrifuge to remove cell debris. Mix lysate with

non-reducing SDS-PAGE sample buffer.

Immunohistochemistry on Paraffin Sections: 10 µg/ml. Positive tissue: placenta

endothelium.

Immunocytochemistry.

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: The antibody reacts with Class III epitope on CD34, 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 completely blocks binding of Class II antibody QBEnd10 and Class III antibodies

BIRMA K3 and 8G12 on KG1a cell line.

Formulation: PBS pH 7.4 with 15 mM Sodium Azide as preservative

State: Purified

State: Liquid purified Ig fraction (> 95% by SDS-PAGE)

Concentration: lot specific

Purification: Purified by protein-A affinity chromatography.



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Conjugation: Unconjugated

Storage: Store undiluted at 2-8°C.

DO NOT FREEZE!

Stability: Shelf life: one year from despatch.

Gene Name: CD34 molecule

Database Link: Entrez Gene 947 Human

P28906

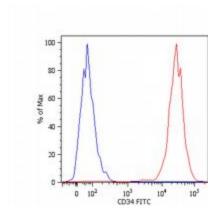
Background: CD34 is a highly glycosylated monomeric 111-115 kDa surface protein, which is present on

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 Kg-1a human acute myelogenous leukemia cell line with anti-human CD34 (4H11[APG]) FITC. Total viable cells were used for analysis.