

9853 Pacific Heights Blvd. Suite D. San Diego, CA 92121, USA Tel: 858-263-4982

Email: info@abeomics.com

30-2582: Anti-Human CD34 PE-DyLight® 594 (Clone: 4H11[APG])

Clonality: Monoclonal
Clone Name: 4H11[APG]
Application: FACS
Reactivity: Human

Conjugate: PE-DyLight® 594

Gene : CD34 **Gene ID :** 947

Alternative Name: Mucosialin,CD34 molecule

Isotype: Mouse IgG1

Immunogen Information : Permanent human cell line derived from peripheral leucocytes of a patient suffering from chronic

myeloid leukaemia.

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.

Specificity: The mouse monoclonal antibody 4H11[APG] reacts with extracellular 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.

Product Info

Amount: 100 tests

Purification:

The purified antibody is conjugated with tandem dye PE-DyLight® 594 under optimum conditions.

The conjugate is purified by size-exclusion chromatography.

Content: Formulation: Stabilizing phosphate buffered saline (PBS) solution containing 15 mM sodium azide

Storage condition: Store in the dark at 2-8°C. Do not freeze. Avoid prolonged exposure to light.

Application Note

Flow cytometry: The reagent is designed for analysis of human blood cells using 4 $\hat{A}\mu$ l reagent / 100 $\hat{A}\mu$ l of whole blood or 10⁶ cells in a suspension. The content of a vial (0.4 ml) is sufficient for 100 tests.

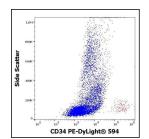


Figure 1 : Flow cytometry surface staining pattern of human peripheral whole blood showing CD34 positive stem cells (red) stained using anti-human CD34 (4H11[APG]) PE-DyLight® 594 antibody (4 µl reagent / 100 µl of peripheral whole blood).