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30-1185: Anti-CD34 / Mucosialin Monoclonal Antibody (Clone:4H11[APG])

Clonality :	Monoclonal
Clone Name :	4H11[APG]
Application :	ICC,IHC,FACS,WB
Reactivity :	Human
Gene :	CD34
Gene ID :	947
Uniprot ID :	P28906
Format :	Purified
Alternative Name :	CD34
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.

Product Info

Amount :	0.1 mg
Purification :	Purified by precipitation and chromatography
Storage condition :	Store at 2-8°C. Do not freeze.

Application Note

Western blotting: Recommended dilution: 1-2 µg/ml; positive control: Kg-1a, TF-1 cells, non-reducing conditions.
Flow cytometry: Recommended dilution: 2 µg/ml.
Immunohistochemistry (paraffin sections): Recommended dilution: 10 µg/ml; positive tissue: placenta endothelium.

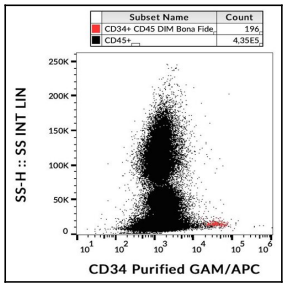


Figure-1: Flow cytometry surface staining pattern of human peripheral whole blood showing CD34 positive stem cells (red) stained using anti-CD34 (4H11[APG]) purified / GAM-APC.

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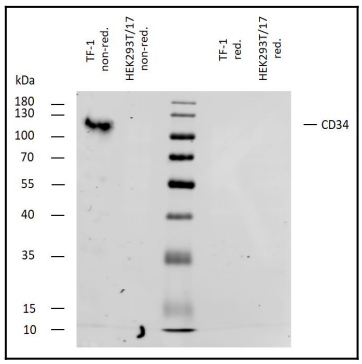


Figure-2: Western bloting analysis of human CD34 using mouse monoclonal antibody 4H11[APG] on lysates of TF-1 cell line and HEK293T/17 cell line (CD34 non-expressing cell line; negative control) under non-reducing and reducing conditions. Nitrocellulose membrane was probed with 2 µg/ml of mouse anti-CD34 monoclonal antibody 4H11[APG] followed by IRDye800-conjugated anti-mouse IgG1 secondary antibody. A specific band was detected for CD34 protein at approximately 110 kDa.

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