

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

<b>Clonality :</b>	Monoclonal
<b>Clone Name :</b>	4H11[APG]
<b>Application :</b>	ICC,IHC,FACS,WB
<b>Reactivity :</b>	Human
<b>Gene :</b>	CD34
<b>Gene ID :</b>	947
<b>Uniprot ID :</b>	P28906
<b>Format :</b>	Purified
<b>Alternative Name :</b>	CD34
<b>Isotype :</b>	Mouse IgG1
<b>Immunogen Information :</b>	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

<b>Amount :</b>	0.1 mg
<b>Purification :</b>	Purified by precipitation and chromatography
<b>Storage condition :</b>	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.

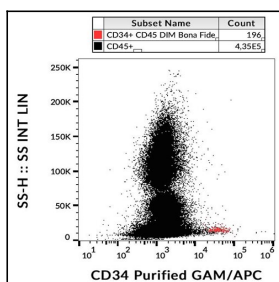


Figure-1: Flow cytometry surface staining pattern of human peripheral whole blood showing CD34 positive stem cells (red) stained using anti-CD34 (4H11[APG]) purified / GAM-APC.

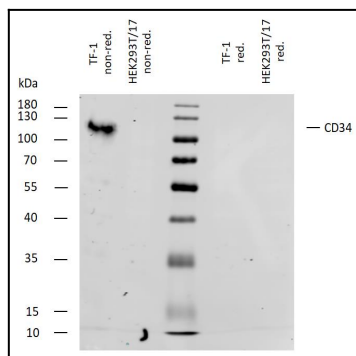


Figure-2: Western blotting analysis of human CD34 using mouse monoclonal antibody 4H11[APG] on lysates of TF-1 cell line and HEK293T/17 cell line (CD34 non-expressing cell line; negative control) under non-reducing and reducing conditions. Nitrocellulose membrane was probed with 2  $\mu\text{g/ml}$  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.