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36-3587: Anti-CD34 (Hematopoietic Stem Cell & Endothelial Marker) Monoclonal Antibody(Clone: ICO-115)-CF488

Clonality :	Monoclonal
Clone Name :	ICO-115
Application :	FACS,IF
Reactivity :	Human, Rat
Conjugate :	CF488
Gene :	CD34
Gene ID :	947
Uniprot ID :	P28906
Alternative Name :	Hematopoietic Progenitor Cell Antigen, HPCA1, Mucosialin
Isotype :	Mouse IgG1, kappa
Immunogen Information :	Blast cells of a chronic myeloid leukemia patient

Description

This antibody recognizes a carbohydrate epitope on a single chain, transmembrane, heavily glycosylated protein of 90-120kDa, which is identified as CD34 (VI international workshop on human differentiation antigens). Its expression is a hallmark for identifying pluripotent hematopoietic stem or progenitor cells. Its expression is gradually lost as lineage committed progenitors differentiate. CD34 is a marker of choice for staining blasts in acute myeloid leukemia. In addition, it is expressed by soft tissue tumors, such as solitary fibrous tumor and gastrointestinal stromal tumor. CD34 expression is also found in vascular endothelium. Additionally, it appears that proliferating endothelial cells overexpress this molecule than the non-proliferating endothelial cells. Anti-CD34 labels 85% of angiosarcoma and Kaposi's sarcoma, but shows low specificity.

Product Info

Amount :	0.5 ml at 100µg/ml
Content :	Antibody Purified from Bioreactor Concentrate by Protein A/G and conjµgated to various reporter molecules. Prepared in 10mM PBS with 0.05% BSA and 0.05% azide. Contact us if you require this Ab in a different format.
Storage condition :	Antibody with azide - store at 4 to 8°C. Antibody is stable for 24 months. Non-hazardous.

Application Note

Flow Cytometry: 5ul per test per one million cells (or 5ul per 100ul of whole blood);Immunofluorescence (1:50-1:100)

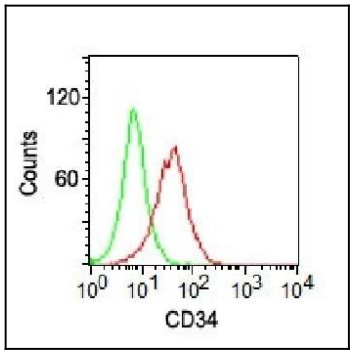

Fig. 1: Flow cytometry of KG-1 cells using CD34 Monoclonal Antibody (ICO-115) (red) and isotype control Ab (green).

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