

Mouse CD34 Monoclonal Antibody | anti-CD34 antibody

CD34

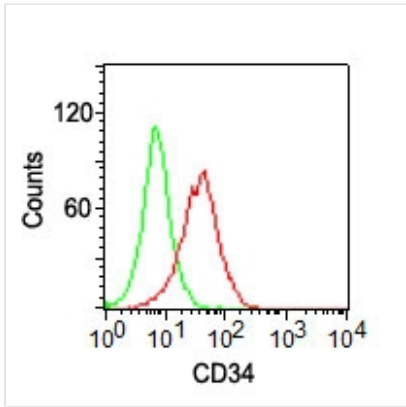
CATALOG # AAA62538	HOST Mouse	REACTIVITY Human and Rat. Others not known.	APPLICATIONS Flow Cytometry, Functional Assay
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PRODUCT SYNONYMS

CD34; Monoclonal Antibody; Hematopoietic Progenitor Cell Antigen; HPCA1; Mucosialin; anti-CD34 antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human and Rat. Others not known.
Clonality	Monoclonal
Isotype	IgG1, kappa
Clone Number	ICO-115
Specificity	This antibody recognizes a single chain, transmembrane, heavily glycosylated protein of 90-120kDa, which is identified as CD34. 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.
Purity/Purification	Purified Ab conjugated to PE
Form/Format	Antibody purified from Bioreactor Concentrate by Protein A/G and conjugated to various reporter molecules. Prepared in 10mM pbs with 0.05% BSA and 0.05% azide.
Sequence Length	385
Applicable Applications for anti-CD34 antibody	FCM/FACS (Flow Cytometry)
Localization	Cell surface
Positive Control	KG-1 cells, Tonsil, or Angiosarcoma
Human Chromosomal Location	1q32.2
Immunogen	Blast cells of a chronic myeloid leukemia patient
Quantity and Buffer	0.5 ml at 100ug/ml; Conjugated to PE
Preparation and Storage	Store at 2 to 8°C. Antibody is stable for 24 months.



Application Data
Surface flow cytometric analysis of CD34 on KG-1 cells using CD34 Ab (ICO-115) (red) and isotype control Ab (green). PPI negative cell population was gated for analysis.

ADDITIONAL INFORMATION

References	1. Felshow DM et al. Blood 97:3768-3775 (2001). 2. Sato T et al. Blood 94:2548-2554 (1999).
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NCBI AND UNIPROT INFORMATION

NCBI GI #	68342038
NCBI GeneID	947
NCBI Accession #	NP_001020280.1
NCBI GenBank Nucleotide #	NM_001025109.1
UniProt Accession #	P28906; Q15970; Q15971; Q5JTA3; Q5JTA4; Q9UJB1; A8K664
Molecular Weight	90-110kDa
NCBI Official Full Name	hematopoietic progenitor cell antigen CD34 isoform a
NCBI Official Synonym Full Names	CD34 molecule
NCBI Official Symbol	CD34
NCBI Protein Information	hematopoietic progenitor cell antigen CD34; CD34 antigen
UniProt Protein Name	Hematopoietic progenitor cell antigen CD34
UniProt Gene Name	CD34
UniProt Entry Name	CD34_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.