

# Product Datasheet

## CD34 Antibody (ICO-115) - Azide and BSA Free NBP2-33076

Unit Size: 0.1 mg

Store at -20 to -80C. Avoid freeze-thaw cycles.

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**NBP2-33076**

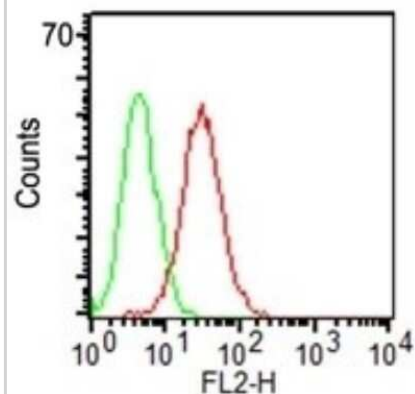
CD34 Antibody (ICO-115) - Azide and BSA Free

<b>Product Information</b>	
<b>Unit Size</b>	0.1 mg
<b>Concentration</b>	1.0 mg/ml
<b>Storage</b>	Store at -20 to -80C. Avoid freeze-thaw cycles.
<b>Clonality</b>	Monoclonal
<b>Clone</b>	ICO-115
<b>Preservative</b>	No Preservative
<b>Isotype</b>	IgG1 Kappa
<b>Purity</b>	Protein A or G purified
<b>Buffer</b>	10 mM PBS
<b>Product Description</b>	
<b>Description</b>	1.0 mg/ml of antibody purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS WITHOUT BSA & azide. Also available at 200 ug/ml WITH BSA & azide (NBP2-29455).  Antibody with azide - store at 2 to 8C. Antibody without azide - store at -20 to -80C.
<b>Host</b>	Mouse
<b>Gene ID</b>	947
<b>Gene Symbol</b>	CD34
<b>Species</b>	Human, Rat
<b>Marker</b>	Hematopoietic Stem Cell & Endothelial Marker
<b>Specificity/Sensitivity</b>	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, proliferating endothelial cells overexpress this molecule than the non-proliferating endothelial cells. Anti-CD34 labels 85% of angiosarcoma and Kaposi sarcoma, but shows low specificity.
<b>Immunogen</b>	Blast cells of a chronic myeloid leukemia patient
<b>Product Application Details</b>	
<b>Applications</b>	ELISA, Flow Cytometry, Immunocytochemistry/ Immunofluorescence, CyTOF-ready
<b>Recommended Dilutions</b>	Flow Cytometry 0.5-1ug/million cells, ELISA, Immunocytochemistry/ Immunofluorescence 0.5-1ug/ml, CyTOF-ready
<b>Application Notes</b>	ELISA: For coating, order antibody without BSA). Optimal dilution for a specific application should be determined.

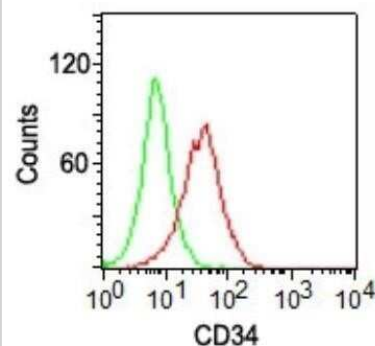


## Images

Flow Cytometry: CD34 Antibody (ICO-115) - Azide and BSA Free [NBP2-33076] - Flow Cytometry of KG-1 cells using CD34 antibody (ICO-115) (red) and isotype control (green).



Flow Cytometry: CD34 Antibody (ICO-115) - Azide and BSA Free [NBP2-33076] - Analysis using the PE conjugate of this antibody. Surface Staining of CD34 on KG-1 cells using CD34 antibody (red) and isotype control (green) at 5 ul/0.5 ug/10<sup>6</sup> cells. PPI negative cell population was gated for analysis.



## Publications

Vallant N, Sandhu B, Hamaoui K, et al Immunomodulatory Properties of Mesenchymal Stromal Cells Can Vary in Genetically Modified Rats Int J Mol Sci 2021-01-28 [PMID: 33504032]

Details:

Citation using the Azide and BSA Free version of this antibody.



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### **Products Related to NBP2-33076**

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HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB720-B	Rabbit anti-Mouse IgG (H+L) Secondary Antibody [Biotin]
NBP1-43319-0.5mg	Mouse IgG1 Kappa Isotype Control (P3.6.2.8.1)
NBP2-22751	Recombinant Human CD34 His Protein

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### **Limitations**

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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