

# Product Datasheet

## CD34 Antibody (HPCA1/1171) [PE] NBP2-47911PE

Unit Size: 0.1 ml

Store at 4C in the dark.

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**NBP2-47911PE**

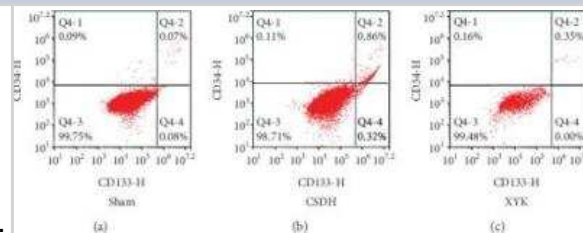
CD34 Antibody (HPCA1/1171) [PE]

<b>Product Information</b>	
<b>Unit Size</b>	0.1 ml
<b>Concentration</b>	Please see the vial label for concentration. If unlisted please contact technical services.
<b>Storage</b>	Store at 4C in the dark.
<b>Clonality</b>	Monoclonal
<b>Clone</b>	HPCA1/1171
<b>Preservative</b>	0.05% Sodium Azide
<b>Isotype</b>	IgG1 Kappa
<b>Conjugate</b>	PE
<b>Purity</b>	Protein A or G purified
<b>Buffer</b>	PBS
<b>Product Description</b>	
<b>Description</b>	This conjugate is made on demand. Actual recovery may vary from the stated volume of this product. The volume will be greater than or equal to the unit size stated on the datasheet.
<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>	Recombinant full-length human CD34 protein (Uniprot: P28906)
<b>Product Application Details</b>	
<b>Applications</b>	Western Blot, Flow Cytometry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin, CyTOF-ready, Immunofluorescence
<b>Recommended Dilutions</b>	Western Blot, Flow Cytometry, Immunohistochemistry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry-Paraffin, Immunofluorescence, CyTOF-ready
<b>Application Notes</b>	Optimal dilution of this antibody should be experimentally determined.



## Images

Flow Cytometry: CD34 Antibody (HPCA1/1171) [PE] [NBP2-47911PE] - Percent of EPCs (CD133 + CD34 +) reduced in the XYK group detected by flow cytometry. Data are mean  $\pm$  SD analyzed by one-way analysis of variance.  $**P < 0.01$ . CSDH, chronic subdural hematoma; EPC, endothelial progenitor cell; XYK, Xiaoyukang Jiaonang. Image collected and cropped by CiteAb from the following publication (<https://doi.org/10.1155/2020/2305017>), licensed under a CC-BY license.



## Publications

Deng W, Jo JI, Morikuni H et al. Senescence-associated secretory phenotypes in rat-derived dedifferentiated fat cells with replicative senescence Dental materials journal 2023-02-10 [PMID: 36775334] (FLOW, Rat)

Liu J, Dong X, Li Z et al. Xiaoyukang Jiaonang Promotes the Degradation of Hypoxia-Inducible Factor 1alpha and Antiangiogenesis and Anti-Inflammation in Chronic Subdural Hematoma Rat Model Evid Based Complement Alternat Med. [PMID: 32328124] (FLOW, Rat)



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### **Products Related to NBP2-47911PE**

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NBP1-43319PE-0.5ml	Mouse IgG1 Kappa Isotype Control (P3.6.2.8.1) [PE]
NBP2-22751	Recombinant Human CD34 His Protein
210-TA-005	TNF-alpha [Unconjugated]
9655-CD-050	CD34 [Unconjugated]

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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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