

Product Datasheet

CD34 Antibody (HPCA1/1171)

NBP2-44569-0.1mg

Unit Size: 0.1 mg

Store at 4C.

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CD34 Antibody (HPCA1/1171)

Product Information	
Unit Size	0.1 mg
Concentration	0.2 mg/ml
Storage	Store at 4C.
Clonality	Monoclonal
Clone	HPCA1/1171
Preservative	0.05% Sodium Azide
Isotype	IgG1 Kappa
Purity	Protein A or G purified
Buffer	10 mM PBS with 0.05% BSA

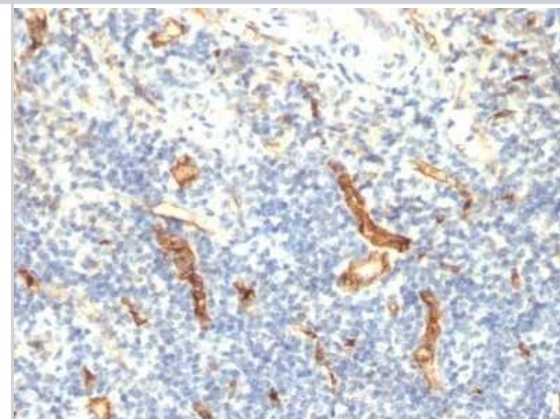
Product Description	
Description	200ug/ml of antibody purified from Bioreactor Concentrate by Protein A or G. Prepared in 10 mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0 mg/ml. (NBP2-47911) Antibody with azide - store at 2 to 8C. Antibody without azide - store at -20 to -80C.
Host	Mouse
Gene ID	947
Gene Symbol	CD34
Species	Human, Rat
Marker	Hematopoietic Stem Cell & Endothelial Marker
Specificity/Sensitivity	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.
Immunogen	Recombinant full-length human CD34 protein (Uniprot: P28906)

Product Application Details	
Applications	Western Blot, Flow Cytometry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin, Immunofluorescence
Recommended Dilutions	Western Blot 1-2 ug/ml, Flow Cytometry 1-2 ug/million cells, Immunohistochemistry, Immunocytochemistry/ Immunofluorescence 1-2 ug/ml, Immunohistochemistry-Paraffin 2-4 ug/ml, Immunofluorescence 0.5 - 1.0 ug/ml
Application Notes	Immunohistochemistry (Formalin-fixed): 2-4ug/ml for 30 min at RT. Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95C followed by cooling at RT for 20 minutes. Optimal dilution for a specific application should be determined.

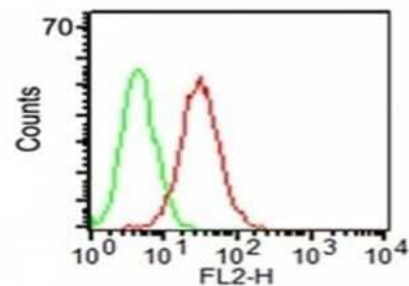


Images

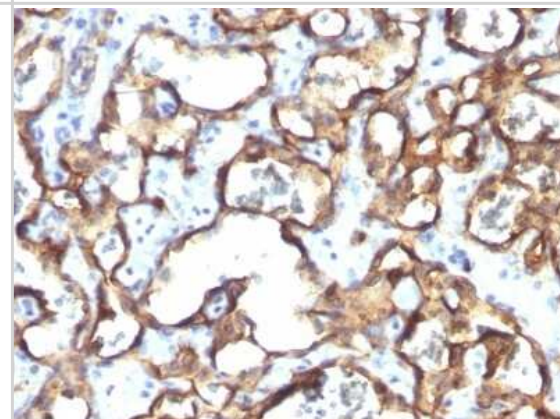
Immunohistochemistry-Paraffin: CD34 Antibody (HPCA1/1171) [NBP2-44569] - Human Tonsil stained with CD34 Monoclonal Antibody (HPCA1/1171)



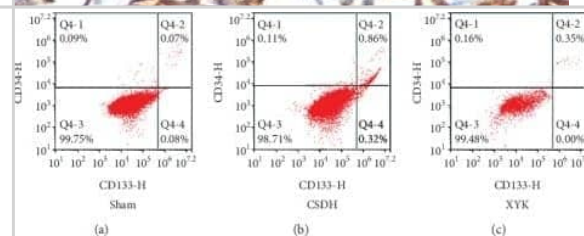
Flow Cytometry: CD34 Antibody (HPCA1/1171) [NBP2-44569] - KG-1 cells using CD34 Monoclonal Antibody (HPCA1/1171) (red) & isotype control (green).



Immunohistochemistry-Paraffin: CD34 Antibody (HPCA1/1171) [NBP2-44569] - Human Angiosarcoma stained with CD34 Monoclonal Antibody (HPCA1/1171)



Flow Cytometry: CD34 Antibody (HPCA1/1171) [NBP2-44569] - Percent of EPCs (CD133 + CD34 +) reduced in the XYK group detected by flow cytometry. Data are mean +/- SD analyzed by one-way analysis of variance. **P < 0.01. CSDH, chronic subdural hematoma; EPC, endothelial progenitor cell; XYK, Xiaoyukang Jiaonang. PE conjugated CD34 antibody used (NBP2-47911PE). Image collected and cropped by CiteAb from the following publication (<https://pubmed.ncbi.nlm.nih.gov/32328124/>), 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)

Labuz D, Whitlock A, Kycia I et al. Routing Pathway of Syngeneic Donor Hematopoietic Stem Cells after Simple Intra-Amniotic Delivery *Journal of Pediatric Surgery* 2022-02-01 [PMID: 35279287] (FLOW)

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 NBP2-44569-0.1mg

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)
NBP2-53044-50ug	Recombinant Human CD34 His Protein

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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