

Product Datasheet

CD34 Antibody (SPM123)

NBP2-32933-0.1mg

Unit Size: 0.1 mg

Store at 4C.

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NBP2-32933-0.1mg

CD34 Antibody (SPM123)

Product Information	
Unit Size	0.1 mg
Concentration	0.2 mg/ml
Storage	Store at 4C.
Clonality	Monoclonal
Clone	SPM123
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 at 1.0 mg/ml. (NBP2-34733) Antibody with azide - store at 2 to 8C.
Host	Mouse
Gene ID	947
Gene Symbol	CD34
Species	Human, Cynomolgus Monkey, Rhesus Macaque, Bovine (Negative), Canine (Negative), Rat (Negative)
Reactivity Notes	Does not react with Rat, Bovine or Canine.
Marker	Hematopoietic Stem Cell & Endothelial Marker
Specificity/Sensitivity	This monoclonal antibody recognizes a single chain, transmembrane, heavily glycosylated protein of 90-120kDa, which is identified as CD34. On the basis of differential sensitivity to degradation by specific enzymes, epitopes of monoclonal antibodies to CD34 are classified into three main categories, class I, class II and class III. It is a class II antibody whose epitope is resistant to neuraminidase but sensitive to glycoprotease and chymopapain. CD34 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, CD34 is expressed by soft tissue tumors, such as solitary fibrous tumor and gastrointestinal stromal tumor. Its expression is also found in vascular endothelium. Additionally, it appears that proliferating endothelial cells express this molecule more than the non-proliferating endothelial cells. Anti-CD34 labels 85% of angiosarcoma and Kaposi sarcoma, but with a lower specificity.
Immunogen	Detergent solubilized vesicular suspension prepared from human term placenta

Product Application Details	
Applications	Flow Cytometry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Frozen, Immunohistochemistry-Paraffin
Recommended Dilutions	Flow Cytometry 1-2 ug/million cells, Immunohistochemistry, Immunocytochemistry/ Immunofluorescence 1-2 ug/ml, Immunohistochemistry-Paraffin 1-2 ug/ml, Immunohistochemistry-Frozen 0.5-1.0ug/ml

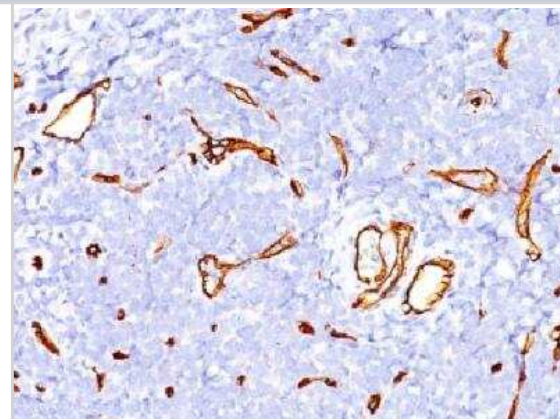


Application Notes

Immunohistochemistry (Formalin-fixed): 1-2ug/ml for 30 minutes 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 (SPM123) [NBP2-32933] - Formalin-fixed paraffin-embedded human tonsil stained with CD34 Monoclonal Antibody (SPM123)

**Publications**

Cao J, O'Day DR, Pliner HA et al. A human cell atlas of fetal gene expression Science 2020-11-13 [PMID: 33184181]

Herten M, Zilkens C, Thorey F et al. Biomechanical Stability and Osteogenesis in a Tibial Bone Defect Treated by Autologous Ovine Cord Blood Cells-A Pilot Study. Molecules 2019-01-15 [PMID: 30650584] (IF/IHC, Sheep)



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Products Related to NBP2-32933-0.1mg

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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