

Product Datasheet

CD34 Antibody (QBEnd/10) - BSA Free NBP2-32932-0.1mg

Unit Size: 0.1 mg

Store at 4C short term. Store at -20C long term. Avoid freeze-thaw cycles.

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NBP2-32932-0.1mg

CD34 Antibody (QBEnd/10) - BSA Free

Product Information	
Unit Size	0.1 mg
Concentration	1.0 mg/ml
Storage	Store at 4C short term. Store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	QBEnd/10
Preservative	0.02% Sodium Azide
Isotype	IgG1 Kappa
Purity	Protein A purified
Buffer	PBS
Product Description	
Host	Mouse
Gene ID	947
Gene Symbol	CD34
Species	Human, Primate, Bovine (Negative), Canine (Negative), Rat (Negative), Sheep (Negative)
Reactivity Notes	Cynomolgus Monkey, Rhesus Monkey
Marker	Hematopoietic Stem Cell & Endothelial Marker
Specificity/Sensitivity	This MAb 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 s sarcoma, but with a lower specificity.
Immunogen	Detergent solubilized vesicular suspension prepared from human term placenta
Product Application Details	
Applications	Western Blot, Flow Cytometry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Frozen, Immunohistochemistry-Paraffin, Immunoprecipitation, Multiplex Immunofluorescence
Recommended Dilutions	Western Blot 0.25-0.5ug/ml, Flow Cytometry 0.5-1ug/million cells, Immunohistochemistry, Immunocytochemistry/ Immunofluorescence 0.5-1ug/ml, Immunoprecipitation 0.5-1ug/500ug protein lysate, Immunohistochemistry-Paraffin 0.5-1.0ug/ml, Immunohistochemistry-Frozen 0.5-1.0ug/ml, Multiplex Immunofluorescence 10ug/mL



Application Notes

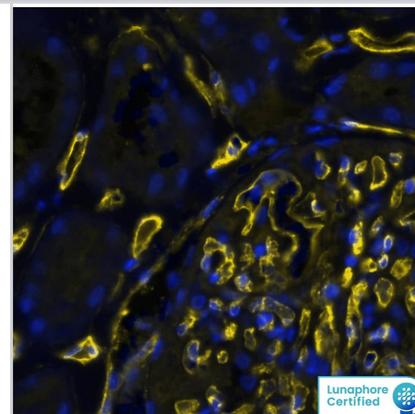
Human Chromosome Location: 1q32.2

Mol. Weight of Antigen:90-110kDa

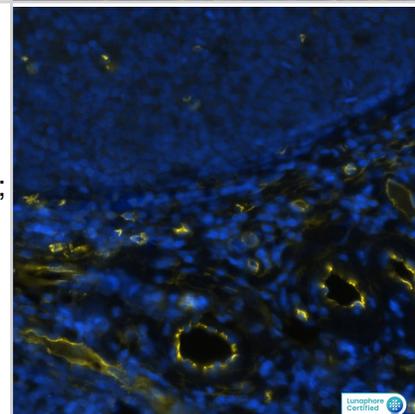
Immunohistochemistry (Staining of formalin-fixed tissues is enhanced by boiling tissue sections in 10mM Citrate Buffer, pH 6.0, for 10-20 min followed by cooling at RT for 20 minutes). The 7mL size is a pre-diluted size and no additional dilutions are required before using this item for the intended application.

Images

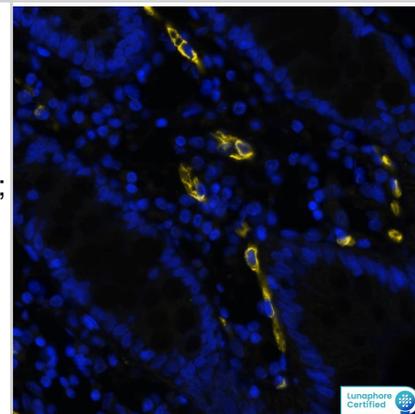
CD34 was detected in immersion fixed paraffin-embedded sections of human kidney using Mouse Anti-Human CD34 Monoclonal Antibody (Novus Catalog # NBP2-32932) at 10 µg/mL at 37 ° Celsius for 4 minutes. Before incubation with the primary antibody, tissue underwent an all-in-one dewaxing and antigen retrieval preprocessing using PreTreatment Module (PT Module) and Dewax and HIER Buffer H (pH 9). Tissue was stained using the Alexa Fluor™ Plus 647 Goat anti-Mouse IgG Secondary Antibody at 1:200 at 37 ° Celsius for 2 minutes. (Yellow; Lunaphore Catalog # [DR647MS](#)) and counterstained with DAPI (blue; Lunaphore Catalog # [DR100](#)). Specific staining was localized to the cell membrane. Protocol available in [COMET™ Panel Builder](#).



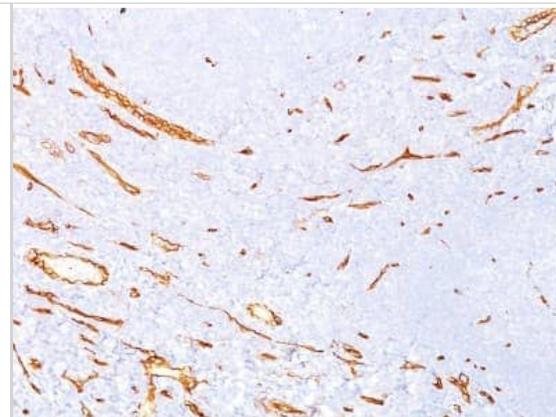
CD34 was detected in immersion fixed paraffin-embedded sections of human tonsil using Mouse Anti-Human CD34 Monoclonal Antibody (Novus Catalog # NBP2-32932) at 10 µg/mL at 37 ° Celsius for 4 minutes. Before incubation with the primary antibody, tissue underwent an all-in-one dewaxing and antigen retrieval preprocessing using PreTreatment Module (PT Module) and Dewax and HIER Buffer H (pH 9; EpreDia Catalog # TA-999-DHBH). Tissue was stained using the Alexa Fluor™ 647 Goat anti-Mouse IgG Secondary Antibody at 1:200 at 37 ° Celsius for 2 minutes. (Yellow; Lunaphore Catalog # [DR647MS](#)) and counterstained with DAPI (blue; Lunaphore Catalog # [DR100](#)). Specific staining was localized to the cell membrane. Protocol available in [COMET™ Panel Builder](#).



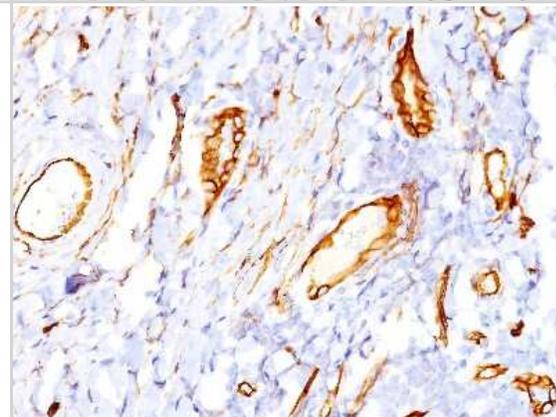
CD34 was detected in immersion fixed paraffin-embedded sections of human colon using Mouse Anti-Human CD34 Monoclonal Antibody (Novus Catalog # NBP2-32932) at 10 µg/mL at 37 ° Celsius for 4 minutes. Before incubation with the primary antibody, tissue underwent an all-in-one dewaxing and antigen retrieval preprocessing using PreTreatment Module (PT Module) and Dewax and HIER Buffer H (pH 9; EpreDia Catalog # TA-999-DHBH). Tissue was stained using the Alexa Fluor™ 647 Goat anti-Mouse IgG Secondary Antibody at 1:200 at 37 ° Celsius for 2 minutes. (Yellow; Lunaphore Catalog # [DR647MS](#)) and counterstained with DAPI (blue; Lunaphore Catalog # [DR100](#)). Specific staining was localized to the cell membrane. Protocol available in [COMET™ Panel Builder](#).



Immunohistochemistry-Paraffin: CD34 Antibody (QBEnd/10) [NBP2-32932] - Formalin-fixed, paraffin-embedded human tonsil (10X) stained with CD34 MAb (QBEnd/10)



Immunohistochemistry-Paraffin: CD34 Antibody (QBEnd/10) [NBP2-32932] - Formalin-paraffin human tonsil (20X) stained with CD34 MAb (QBEnd/10)



Publications

Kusmartseva I, Wu W, Syed F et al. Expression of SARS-CoV-2 Entry Factors in the Pancreas of Normal Organ Donors and Individuals with COVID-19 Cell Metabolism 2020-12-01 [PMID: 33207244] (Western Blot)

Fang WB, Medrano M, Cote P et al. Transcriptome analysis reveals differences in cell cycle, growth and migration related genes that distinguish fibroblasts derived from pre-invasive and invasive breast cancer Frontiers in oncology 2023-04-06 [PMID: 37091166] (IHC-P, Human)

Details:
Human breast tissue

Xu Z, Ge Y, Jiang K et al Effects of shRNA-mediated silencing of PDE5A3 on intracellular cGMP and free Ca(2+) levels and human prostate smooth muscle cell proliferation from benign prostatic hyperplasia Exp Ther Med 2021-03-18 [PMID: 33732295] (FLOW, Human)

Details:
Citation using the PE version of this antibody.

Aoki H, Yamashita M, Hashita T et Al. Efficient differentiation and purification of human induced pluripotent stem cell-derived endothelial progenitor cells and expansion with the use of inhibitors of ROCK, TGF-beta, and GSK3 beta Heliyon 2020-03-01 [PMID: 32154424] (ICC/IF, Human)

AbuSamra DB, Al-Kilani A, Hamdan SM et al. Quantitative characterization of E-selectin interaction with native CD44 and PSGL-1 using a real-time immunoprecipitation-based binding assay J. Biol. Chem. 2015-06-29 [PMID: 26124272] (WB, Human)



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Products Related to NBP2-32932-0.1mg

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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