

Product Datasheet

CD34 Antibody (ICO-115)

NBP2-29455

Unit Size: 0.1 mg

Store at 4C.

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Reviews: 1 Publications: 8

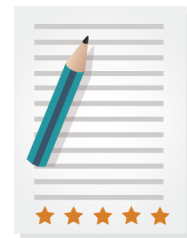
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NBP2-29455

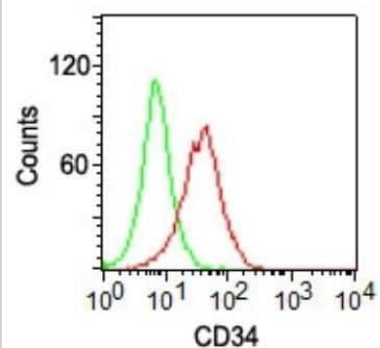
CD34 Antibody (ICO-115)

Product Information	
Unit Size	0.1 mg
Concentration	0.2 mg/ml
Storage	Store at 4C.
Clonality	Monoclonal
Clone	ICO-115
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. (NBP2-33076) 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	Blast cells of a chronic myeloid leukemia patient
Product Application Details	
Applications	ELISA, Flow Cytometry, Immunocytochemistry/ Immunofluorescence
Recommended Dilutions	Flow Cytometry 1-2 ug/million cells, ELISA, Immunocytochemistry/ Immunofluorescence 1-2 ug/ml
Application Notes	ELISA: For coating, order antibody without BSA). Optimal dilution for a specific application should be determined.

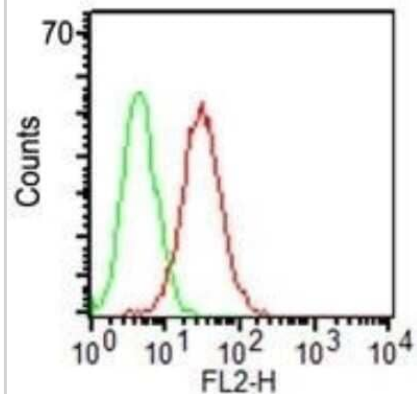


Images

Flow Cytometry: CD34 Antibody (ICO-115) [NBP2-29455] - Analysis using the PE conjugate of NBP2-29455. Surface Staining of CD34 on KG-1 cells using CD34 antibody (red) and isotype control (green) at 5 ul/0.5 ug/10⁶ cells. PPI negative cell population was gated for analysis.



Flow Cytometry: CD34 Antibody (ICO-115) [NBP2-29455] - Surface flow cytometric analysis of CD34 on KG-1 cells using CD34 antibody (red) and isotype control (green) at 0.5 ug/10⁶ cells.



Publications

Li W, Chen F, Chen M et al. Psoralen mediates BMSCs osteogenic differentiation via cross-talk between Wnt/ β -catenin and BMP/smad signaling pathways Research Square 2023-05-17 [PMID: 31896066] (Immunocytochemistry/Immunofluorescence, Rat)

Zhang J, Li C, Meng F et al. Functional tissue-engineered microtissue formed by self-aggregation of cells for peripheral nerve regeneration Stem cell research & therapy 2022-01-10 [PMID: 35012663] (FLOW, Rat)

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.

Zhao Y, Li W, Song J et al. High Expression of EphA2 Led to Secondary Injury by Destruction of BBB Integrity through the ROCK Pathway after Diffuse Axonal Injury Neurosci. Lett. 2020-07-25 [PMID: 32721428] (ICC/IF, Rat)

Qi L, Ahmadi AR, Huang J et al. Major Improvement in Wound Healing Through Pharmacologic Mobilization of Stem Cells in Severely Diabetic Rats Diabetes. [PMID: 31974141]

Zhao Y, Wei X, Song J et al. Peroxisome Proliferator-Activated Receptor γ Agonist Rosiglitazone Protects Blood-Brain Barrier Integrity Following Diffuse Axonal Injury by Decreasing the Levels of Inflammatory Mediators Through a Caveolin-1-Dependent Pathway. Inflammation. 2018-11-28 [PMID: 30488141] (ICC/IF, Human)

Braun RK, Chetty C, Balasubramaniam V et al. Intraperitoneal injection of MSC-derived exosomes prevent experimental bronchopulmonary dysplasia Biochem. Biophys Res Commun 2018-08-06 [PMID: 30093115] (Rat)

Details:

This citation used the Alexa Fluor 488 version of this antibody.

Wang MY, Nestvold J, Rekdal O et al. A novel rat fibrosarcoma cell line from transformed bone marrow-derived mesenchymal stem cells with maintained in vitro and in vivo stemness properties. Exp. Cell Res. 2017-02-09 [PMID: 28189639] (Rat)





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Products Related to NBP2-29455

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

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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