

Product Datasheet

CD34 Antibody (My10) - Chimeric - Azide and BSA Free NBP2-62554-0.025mg

Unit Size: 0.025 mg

Store at 4C for up to 3 months. For longer storage, aliquot and store at -20C.

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NBP2-62554-0.025mg

CD34 Antibody (My10) - Chimeric - Azide and BSA Free

Product Information	
Unit Size	0.025 mg
Concentration	1 mg/ml
Storage	Store at 4C for up to 3 months. For longer storage, aliquot and store at -20C.
Clonality	Monoclonal
Clone	My10
Preservative	0.02% Proclin 300
Isotype	IgG Kappa
Purity	Protein A purified
Buffer	PBS

Product Description	
Description	Novus Biologicals Rabbit CD34 Antibody (My10) - Chimeric - Azide and BSA Free (NBP2-62554) is a recombinant monoclonal antibody validated for use in IHC, WB, Flow and IP. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Rabbit
Gene ID	947
Gene Symbol	CD34
Species	Human
Specificity/Sensitivity	Human CD34, an ~105 - 120 kDa type 1 transmembrane glycoprotein expressed on the surface of most human hematopoietic stem and progenitor cells (HSPCs) as well as on mesenchymal stem cells, embryonic fibroblasts, endothelial cells, neurons, and some tumor cell lines.
Immunogen	KG-1a Human myeloblastic leukemic cell line (immature human myeloid cell line) from a patient with nonlymphocytic leukemia

Product Application Details	
Applications	Western Blot, Flow Cytometry, Immunohistochemistry, Immunoprecipitation
Recommended Dilutions	Western Blot, Flow Cytometry 1:10 - 1:1000, Immunohistochemistry 1:10 - 1:500, Immunoprecipitation 1:10 - 1:500
Application Notes	This chimeric rabbit antibody was made using the variable domain sequences of the original murine IgG1 format, for improved compatibility with existing reagents, assays and techniques.

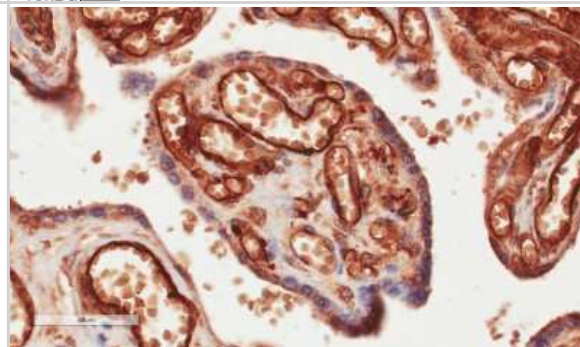


Images

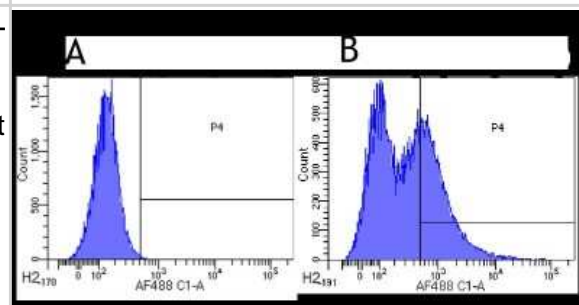
Western Blot: CD34 Antibody (My10) - Chimeric [NBP2-62554] - Western Blot using anti-CD34 antibody My10. Jurkat cell extract (35ug protein in RIPA buffer) was resolved on a 10% SDS PAGE gel and blots probed with the chimeric rabbit version of My10 (NBP2-62554) at 0.1 ug/ml before detection using an anti-rabbit secondary antibody. A primary incubation of 1h was used and protein was detected by chemiluminescence. The expected band size for the canonical isoform of CD34 is 40.9kDa, though a second isoform at 35.2kDa is also present, with a 56 amino acid truncation at the C-terminus of the protein (Uniprot ID: Q64314). CD34 is also glycosylated at several positions. NBP2-62554 successfully detected both isoforms of human CD34.



Immunohistochemistry: CD34 Antibody (My10) - Chimeric [NBP2-62554] - Immunohistochemical staining of human placenta tissue using anti-CD34 antibody. My10 Anti-CD34 staining of paraffin embedded human placenta tissue using the rabbit-chimeric version of My10 (NBP2-62554). Antigen retrieval was achieved by microwaving in citrate buffer (pH6), followed by blocking with protein block serum-free buffer. Primary antibody incubation with NBP2-62554 was carried out at 4 ug/ml for 30 minutes. Samples were then incubated with an anti-rabbit IgG HRP secondary antibody for 20 mins followed by DAB (3,3'-diaminobenzidine), and counter-staining with haematoxylin. Strong endothelial staining of within villi may be observed. Recommended concentration, 2-4 ug/ml.



Flow Cytometry: CD34 Antibody (My10) - Chimeric [NBP2-62554] - Flow-cytometry using anti-CD34 antibody My10. Human leukocytes were stained with an isotype control (panel A) or the rabbit-chimeric version of My10 (NBP2-62554, panel B) at a concentration of 1 ug/ml for 30 mins at RT. After washing, bound antibody was detected using a AF488 conjugated donkey anti-rabbit antibody and cells analysed on a FACSCanto flow-cytometer.





Novus Biologicals USA

10730 E. Briarwood Avenue
Centennial, CO 80112
USA
Phone: 303.730.1950
Toll Free: 1.888.506.6887
Fax: 303.730.1966
nb-customerservice@bio-techne.com

Bio-Techne Canada

21 Canmotor Ave
Toronto, ON M8Z 4E6
Canada
Phone: 905.827.6400
Toll Free: 855.668.8722
Fax: 905.827.6402
canada.inquires@bio-techne.com

Bio-Techne Ltd

19 Barton Lane
Abingdon Science Park
Abingdon, OX14 3NB, United Kingdom
Phone: (44) (0) 1235 529449
Free Phone: 0800 37 34 15
Fax: (44) (0) 1235 533420
info.EMEA@bio-techne.com

General Contact Information

www.novusbio.com
Technical Support: nb-technical@bio-techne.com
Orders: nb-customerservice@bio-techne.com
General: novus@novusbio.com

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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