

# Product Datasheet

## CD34 Antibody (4H11[APG]) - BSA Free NB500-608

Unit Size: 0.1 mg

Store at 4C. Do not freeze.

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**NB500-608**

CD34 Antibody (4H11[APG]) - BSA Free

Product Information	
Unit Size	0.1 mg
Concentration	1.0 mg/ml
Storage	Store at 4C. Do not freeze.
Clonality	Monoclonal
Clone	4H11[APG]
Preservative	0.9% Sodium Azide
Isotype	IgG1
Purity	Protein A purified
Buffer	PBS (pH 7.4)
Target Molecular Weight	115 kDa

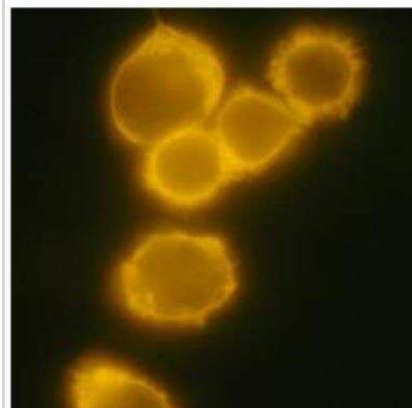
Product Description	
Host	Mouse
Gene ID	947
Gene Symbol	CD34
Species	Human
Marker	Hematopoietic Stem Cell Marker
Specificity/Sensitivity	The antibody 4H11[APG] reacts with Class III epitope on CD34 (Mucosialin), a 110-115 kDa monomeric transmembrane phosphoglycoprotein expressed on hematopoietic progenitors cells and on the most pluripotential stem cells; it is gradually lost on progenitor cells. The antibody 4H11[APG] completely blocks binding of Class II antibody QBEnd10 and Class III antibodies BIRMA K3 and 8G12 on KG1a cell line. HLDA VI; WS Code M MA58
Immunogen	Permanent human cell line derived from peripheral leucocytes of a patient suffering from chronic myeloid leukaemia.

Product Application Details	
Applications	Western Blot, Flow Cytometry, Flow (Cell Surface), Immunocytochemistry/Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin
Recommended Dilutions	Western Blot 1-2 ug/ml, Flow Cytometry 2 ug/ml, Immunohistochemistry 1:10-1:500, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry-Paraffin 10 ug/ml, Flow (Cell Surface)
Application Notes	Western Blot - Sample preparation: Resuspend approx. 50 mil. cells in 1 ml cold Lysis buffer (1% laurylmaltoside in 20 mM Tris/Cl, 100 mM NaCl pH 8.2, 50 mM NaF including Protease inhibitor Cocktail). Incubate 60 min on ice. Centrifuge to remove cell debris. Mix lysate with non-reducing SDS-PAGE sample buffer. Application note: Non-reducing conditions.

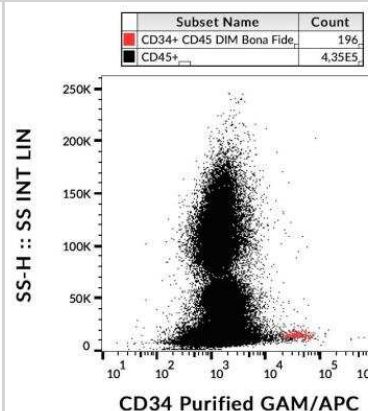


## Images

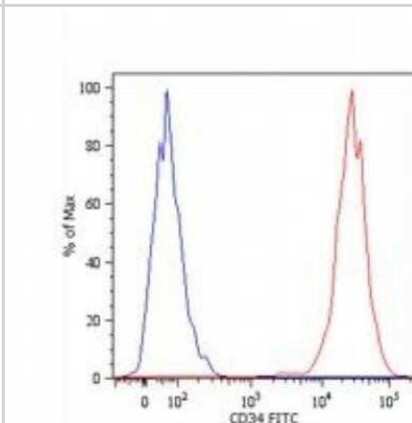
Immunocytochemistry/Immunofluorescence: CD34 Antibody (4H11 [APG]) [NB500-608] - Human chronic myeloid leukemia cell line MOLM-7 with anti-human CD34 (4H11[APG]) PE.



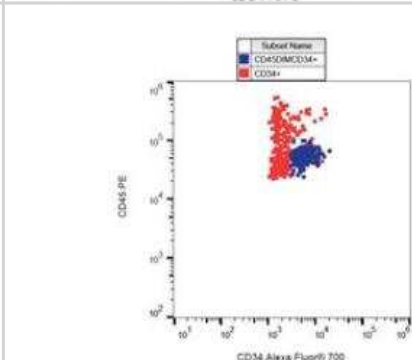
Flow (Cell Surface): CD34 Antibody (4H11[APG]) [NB500-608] - Surface staining of CD34+ cells in human peripheral blood



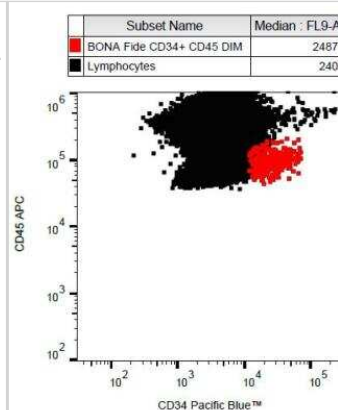
Flow (Cell Surface): CD34 Antibody (4H11[APG]) [NB500-608] - Analysis using the FITC conjugate of NB500-608. Staining of Kg-1a human acute myelogenous leukemia cell line with anti-human CD34 (4H11[APG]) FITC. Total viable cells were used for analysis.



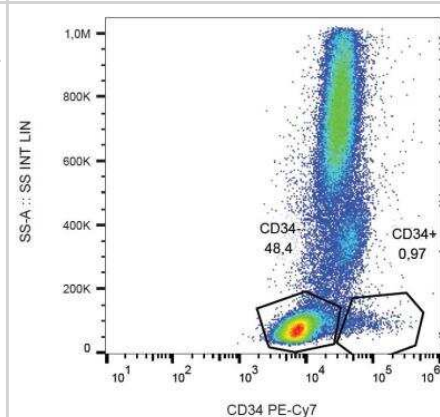
Flow Cytometry: CD34 Antibody (4H11[APG]) [NB500-608] - Staining of CD34+ cells in human peripheral blood with anti-human CD34 (4H11 [APG]) Alexa Fluor® 700.



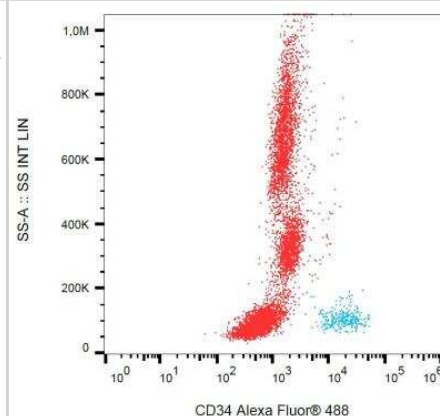
Flow (Cell Surface): CD34 Antibody (4H11[APG]) [NB500-608] - Surface staining of CD34+ cells in human peripheral blood with anti-human CD34 (4H11[APG]) Pacific Blue™



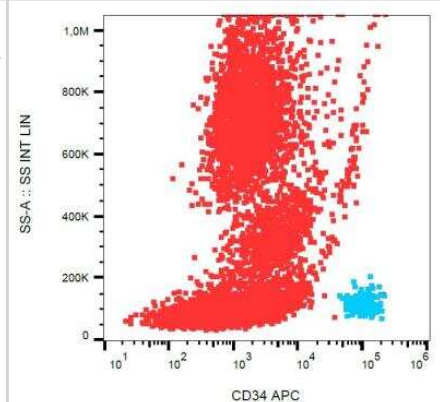
Flow (Cell Surface): CD34 Antibody (4H11[APG]) [NB500-608] - Surface staining of CD34+ cells in human peripheral blood with anti-human CD34 (4H11[APG]) PE-Cy™7.



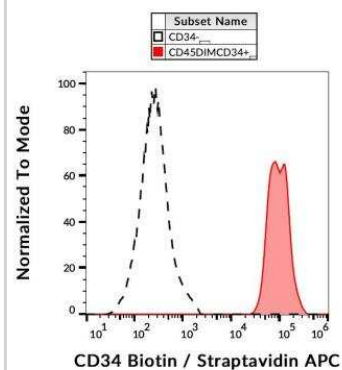
Flow (Cell Surface): CD34 Antibody (4H11[APG]) [NB500-608] - Surface staining of CD34+ cells in human peripheral blood with anti-human CD34 (4H11[APG]) Alexa Fluor® 488.



Flow (Cell Surface): CD34 Antibody (4H11[APG]) [NB500-608] - Surface staining of CD34+ cells in human peripheral blood with anti-human CD34 (4H11[APG]) APC.



Flow (Cell Surface): CD34 Antibody (4H11[APG]) [NB500-608] - Surface staining of CD34+ cells in human peripheral blood with anti-CD34 (4H11 [APG]) biotin / streptavidin-APC.



## Publications

Filidou E, Kandilogiannakis L, Tarapatzi G et al. A Simplified and Effective Approach for the Isolation of Small Pluripotent Stem Cells Derived from Human Peripheral Blood Biomedicines 2023-03-05 [PMID: 36979766] (Immunocytochemistry/ Immunofluorescence, Human)

## Procedures

### Western Blot protocol for CD34 Antibody (NB500-608)

Western Blot Protocol for CD34 Antibody (NB500-608):

Use Kg-1a human leukemia cell lysate as a positive control and JURKAT human leukemia T-cell line as a negative control.

Sample preparation: Resuspend approx. 50 million cells in 1 ml cold Lysis buffer (1% laurylmaltoside in 20 mM Tris/Cl, 100 mM NaCl pH 8.2, 50 mM NaF including Protease inhibitor Cocktail). Incubate 60 min on ice. Centrifuge to remove cell debris. Mix lysate with non-reducing SDS-PAGE sample buffer.

Application note: non-reducing conditions.





### **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

### **Products Related to NB500-608**

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HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB720-B	Rabbit anti-Mouse IgG (H+L) Secondary Antibody [Biotin]
NBP1-97005-0.5mg	Mouse IgG1 Isotype Control (MG1)
NB500-608AF405	CD34 Antibody (4H11[APG]) [Alexa Fluor® 405]

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### **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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