

# Product Datasheet

## CD20 Antibody (MEM-97) - Azide and BSA Free NBP1-44634

Unit Size: 0.1 mg

Store at 4C. Do not freeze.

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**NBP1-44634**

CD20 Antibody (MEM-97) - Azide and BSA Free

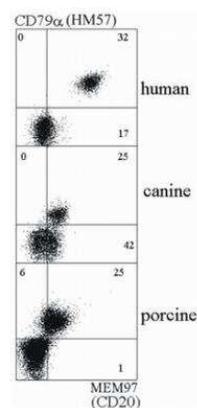
Product Information	
Unit Size	0.1 mg
Concentration	1.0 mg/ml
Storage	Store at 4C. Do not freeze.
Clonality	Monoclonal
Clone	MEM-97
Preservative	No Preservative
Isotype	IgG1
Purity	Protein A purified
Buffer	PBS (pH 7.4), 0.2 um filter sterilized
Target Molecular Weight	37 kDa

Product Description	
Host	Mouse
Gene ID	931
Gene Symbol	MS4A1
Species	Human, Porcine, Bovine
Specificity/Sensitivity	The antibody MEM-97 reacts with CD20 (Bp35), a 33-37 kDa non-glycosylated membrane receptor with four transmembrane domains, expressed on B lymphocytes (it is lost on plasma cells), follicular dendritic cells, and at low levels on peripheral blood T lymphocytes. HLDA V; WS Code B CD20.9
Immunogen	Raji human Burkitt's lymphoma cell line (NM_021950.3).

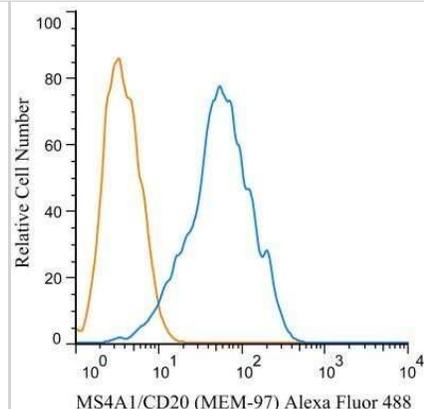
Product Application Details	
Applications	Flow Cytometry, Immunoprecipitation, CyTOF-ready
Recommended Dilutions	Flow Cytometry 10 ug/ml, Immunoprecipitation 1:50, CyTOF-ready
Application Notes	This antibody is Cytof ready.

**Images**

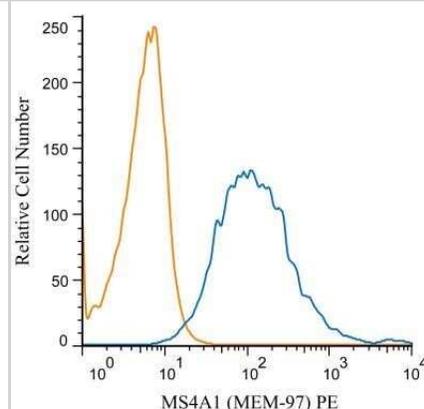
Flow Cytometry: CD20 Antibody (MEM-97) - Azide Free [NBP1-44634] - Double staining of human, canine and porcine B lymphocytes with anti-CD79a (HM57) and anti-CD20 (MEM-97) antibody.



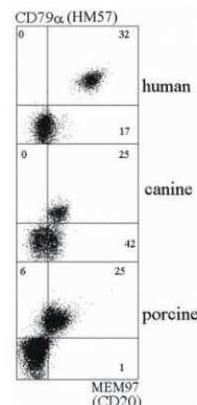
Flow Cytometry: CD20 Antibody (MEM-97) - Azide Free [NBP1-44634] - A cell surface stain was performed on Raji cells with MS4A1/CD20 antibody (MEM-97) NBP1-44634AF488 (blue) along with a matched isotype control NBP2-27287AF488 (orange). Cells were incubated in an antibody dilution of 10 ug/mL for 20 minutes at room temperature.



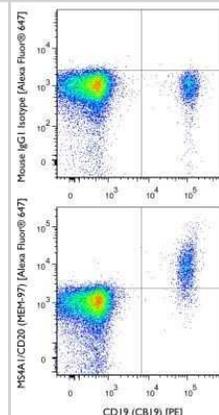
Flow Cytometry: CD20 Antibody (MEM-97) - Azide Free [NBP1-44634] - A cell surface stain was performed on Daudi cells with MS4A1/CD20 (MEM-97) antibody NBP1-44634PE (blue) along with a matched isotype control NBP2-27287PE (orange). Cells were incubated in an antibody dilution of 1 ug/mL for 20 minutes at room temperature. Both antibodies were conjugated to Phycoerythrin.



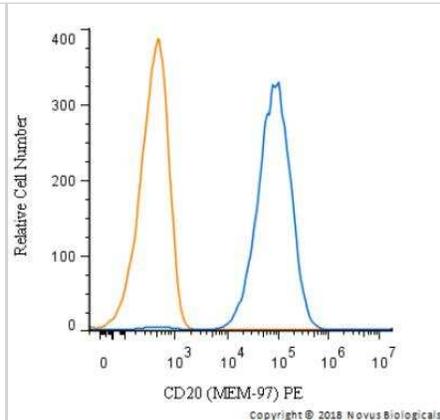
Flow Cytometry: CD20 Antibody (MEM-97) - Azide Free [NBP1-44634] - Double staining of human, canine and porcine B lymphocytes with anti-CD79a (HM57) and anti-CD20 (MEM-97) antibody



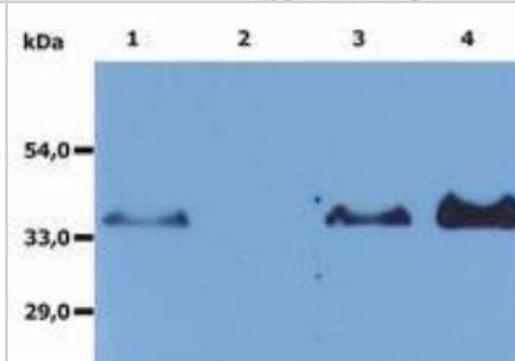
Flow Cytometry: CD20 Antibody (MEM-97) - Azide Free [NBP1-44634] - Flow Cytometry: MS4A1/CD20 Antibody (MEM-97) [Alexa Fluor 647] [NBP1-44634AF647] - A surface stain was performed on human peripheral blood lymphocytes with MS4A1/CD20 (MEM-97) antibody NBP1-44634AF647 and a matched isotype control NBP2-27287AF647. Cells were incubated in an antibody dilution of 2 ug/mL for 20 minutes at room temperature. A co-stain was performed with NBP2-26646. Image using the Alexa Fluor 647 form of this antibody.



Flow Cytometry: CD20 Antibody (MEM-97) - Azide Free [NBP1-44634] - A cell surface stain was performed on Ramos cells with CD20 antibody (MEM-97) NBP1-44634PE (blue) and a matched isotype control (orange). Cells were incubated in an antibody dilution of 2.5 ug/mL for 20 minutes at room temperature. Both antibodies were conjugated to Phycoerythrin.



Immunoprecipitation: CD20 Antibody (MEM-97) - Azide Free [NBP1-44634] - Immunoprecipitation of human CD20 from the whole cell lysate of RAJI human Burkitt lymphoma cell line. Western blot was immunostained with anti-CD20 rabbit polyclonal antibody. Lane 1: original lysate of RAJI cells Lane 2: immunoprecipitate by Isotypic mouse IgG1 control Lane 3: original lysate of RAJI cells Lane 4: immunoprecipitate by anti-CD20 (MEM-97)



## Publications

Stabel JR, Bannantine JP, Humphrey S B cell phenotypes and maturation states in cows naturally infected with Mycobacterium avium subsp. Paratuberculosis PloS one 2022-12-07 [PMID: 36477266] (FLOW, Bovine)

Leukocyte Typing V, Schlossman S et al (Eds). Oxford University Press .

Polyak MJ, Deans JP. Alanine-170 and proline-172 are critical determinants for extracellular CD20 epitopes; heterogeneity in the fine specificity of CD20 monoclonal antibodies is defined by additional requirements imposed by both amino acid sequence and quaternary structure. Blood;99(9):3256-62. 2002-05-01 [PMID: 11964291]

Szollosi J, Horejsi V, Bene L et al. Supramolecular complexes of MHC class I, MHC class II, CD20, and tetraspan molecules (CD53, CD81, and CD82) at the surface of a B cell line JY. J Immunol;157(7):2939-46. 1996-10-01 [PMID: 8816400]

Faldyna M, Samankova P, Leva L et al. Cross-reactive anti-human monoclonal antibodies as a tool for B-cell identification in dogs and pigs. Vet Immunol Immunopathol;119(1-2):56-62. 2007-09-15 [PMID: 17673300]

Brdickova N, Brdicka T, Angelisova P et al. LIME: a new membrane Raft-associated adaptor protein involved in CD4 and CD8 coreceptor signaling J Exp Med 2003-11-17 [PMID: 14610046]

Details:

This citation used the PerCP version of this antibody.



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### **Products Related to NBP1-44634**

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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)
NBP1-44634PE	CD20 Antibody (MEM-97) [PE]

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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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