

# Product Datasheet

## Fc gamma RIII (CD16) Antibody (MEM-154) - BSA Free NB500-378

Unit Size: 0.1 mg

Store at 4C. Do not freeze.

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**NB500-378**

Fc gamma RIII (CD16) Antibody (MEM-154) - 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-154
Preservative	0.09% Sodium Azide
Isotype	IgG1
Purity	Protein A purified
Buffer	PBS (pH 7.4)

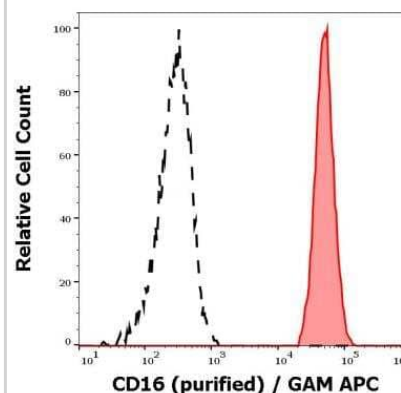
Product Description	
Host	Mouse
Gene ID	2214
Gene Symbol	FCGR3A
Species	Human
Specificity/Sensitivity	The antibody MEM-154 reacts with an epitope on CD16 antigen that is residing in proximity to FG loop (probably BC or C'E loop). CD16 is a low affinity receptor for aggregated IgG (FcgammaRIII antigen). The antibody MEM-154 reacts with CD16+ granulocytes. HLDA V; WS Code M MA068 HLDA V; WS Code NK NK51
Immunogen	Human granulocytes

Product Application Details	
Applications	Western Blot, Flow Cytometry, Flow (Cell Surface), Immunoprecipitation, CyTOF-ready
Recommended Dilutions	Western Blot 1:1000, Flow Cytometry 5-10 ug/ml, Immunoprecipitation 1:50, Flow (Cell Surface), CyTOF-ready
Application Notes	Flow Cytometry - The antibody MEM-154 does not react with CD16a present on NK cells in many subjects. Immunoprecipitation Western Blot - Non-reducing conditions. Functional Application - The antibody MEM-154 blocks binding of human IgG to FcgammaRIII. This antibody is CyTOF ready.

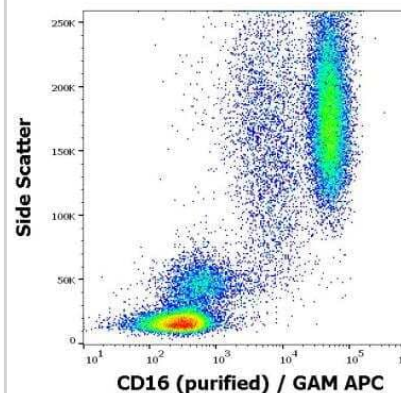


## Images

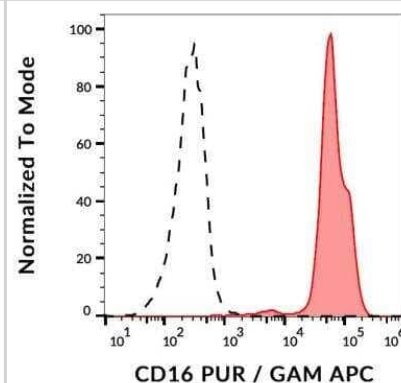
Flow Cytometry: Fc gamma RIII (CD16) Antibody (MEM-154) [NB500-378] - Separation of FasL transfected L5178Y cells stained using anti-human CD178 (NOK-1) purified antibody (concentration in sample 9 ug/ml, GAM APC, red-filled) from FasL transfected L5178Y cells unstained by primary antibody (GAM APC, black-dashed) in flow cytometry analysis (surface staining).



Flow Cytometry: Fc gamma RIII (CD16) Antibody (MEM-154) [NB500-378] - Flow cytometry surface staining pattern of human peripheral blood stained using Fc gamma RIII (CD16) Antibody (MEM-154) purified antibody (concentration in sample 2 ug/ml) GAM APC.



Flow Cytometry: Fc gamma RIII (CD16) Antibody (MEM-154) - BSA Free [NB500-378] - Staining of human peripheral blood cells with anti-human CD16 (MEM-154) purified, GAM/APC.



## Publications

Leukocyte Typing V, Schlossman S et al (Eds). Oxford University Press. 1995-01-01

Gasdaska JR, Sherwood S, Regan JT, Dickey LF. An afucosylated anti-CD20 monoclonal antibody with greater antibody-dependent cellular cytotoxicity and B-cell depletion and lower complement-dependent cytotoxicity than rituximab. *Mol Immunol*;50(3):134-41. 2012-03-01 [PMID: 22305040]

Tamm A, Schmidt RE. The binding epitopes of human CD16 (Fc gamma RIII) monoclonal antibodies. Implications for ligand binding. *J Immunol*;157(4):1576-81. 1996-08-15 [PMID: 8759741]

de Haas M, Koene HR, Kleijer M et al. A triallelic Fc gamma receptor type IIIA polymorphism influences the binding of human IgG by NK cell Fc gamma RIIIa. *J Immunol*;156(8):3948-55. 1996-04-15 [PMID: 8609432]



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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)
210-TA-005	TNF-alpha [Unconjugated]

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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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