

Product Datasheet

Fc gamma RIII (CD16) Antibody (3G8) - Chimeric - BSA Free NBP3-21452-0.2mg

Unit Size: 0.2 mg

Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.

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NBP3-21452-0.2mg

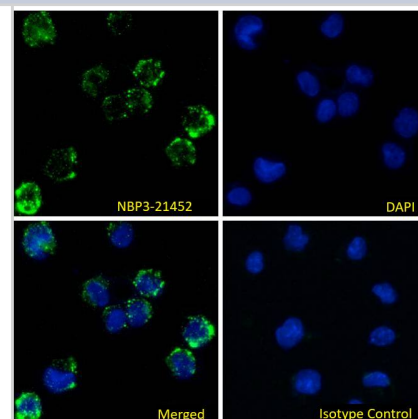
Fc gamma RIII (CD16) Antibody (3G8) - Chimeric - BSA Free

Product Information	
Unit Size	0.2 mg
Concentration	1 mg/ml
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	3G8
Preservative	0.02% Proclin 300
Isotype	IgG Kappa
Purity	Protein A purified
Buffer	PBS
Product Description	
Description	This chimeric rabbit antibody was made using the variable domain sequences of the original Mouse IgG1 format, for improved compatibility with existing reagents, assays and techniques.
Host	Rabbit
Gene ID	2214
Gene Symbol	FCGR3A
Species	Human, Chimpanzee, Baboon, Cynomolgus Monkey, Rhesus Macaque
Reactivity Notes	Expected to react with Pigtailed Macaque, Capuchin Monkey, Squirrel Monkey, Sooty Mangabey, Cotton-topped Tamarin, Marmoset.
Specificity/Sensitivity	This antibody binds to CD16 at an epitope which is not the IgG-binding site. This antibody cannot distinguish between CD16a transmembrane isoform found on the surface of NK cells and macrophages (which can trigger the cytolytic response), and the GPI-linked CD16b isoform present on neutrophils or soluble CD16 found in the plasma. CD16 is the low affinity IgG receptor III and binds to aggregated IgG or IgG-antigen complex which functions in NK cell activation, phagocytosis and ADCC (antibody-dependent cell-mediated cytotoxicity).
Immunogen	Human PMN (polymorphonuclear leukocytes) cells.
Product Application Details	
Applications	Flow Cytometry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunoprecipitation, Surface Plasmon Resonance (SPR), Block/Neutralize
Recommended Dilutions	Flow Cytometry, Immunohistochemistry, Immunocytochemistry/ Immunofluorescence, Immunoprecipitation, Block/Neutralize, Surface Plasmon Resonance (SPR)
Application Notes	This antibody was used to construct a recombinant bispecific scFv (bsscFv) along with the mAb clone F3.3 anti-HLA class II antibody (connected by a (Gly4Ser)4 linker) which was expressed in SF21 insect cells. This bsscFv allows NK cells to target malignant B lymphoid cells and mediates effector cell lysis (ASCC) of the malignant cells (also lysis of primary leukaemia samples). 3G8 is also able to block neutrophil phagocytosis and stimulates NK cell proliferation, and can be used in FC, SPR, IP and IHC studies.

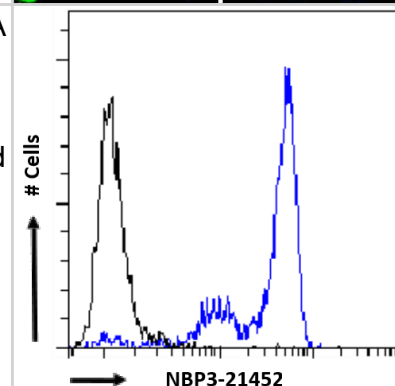


Images

Immunocytochemistry /Immunofluorescence: Fc gamma RIII (CD16) Antibody (3G8) - Chimeric - BSA Free [NBP3-21452] - Immunofluorescence analysis of paraformaldehyde fixed U937 cells permeabilized with 0.15% Triton and stained with NBP3-21452 at 10 ug/ml for 1h followed by Alexa Fluor488 secondary antibody (2 ug/ml), showing membrane staining. The nuclear stain is DAPI (blue). Panels show from left-right, top-bottom NBP3-21452, DAPI, merged channels and an isotype control. The isotype control was stained with an anti-unknown specificity antibody followed by Alexa Fluor488 secondary antibody.



Flow Cytometry: Fc gamma RIII (CD16) Antibody (3G8) - Chimeric - BSA Free [NBP3-21452] - Human peripheral blood leukocytes were fixed using 2% PFA, permeabilised using 0.5% Triton and stained with unimmunized rabbit IgG antibody (isotype control, black line) or NBP3-21452 (blue line) at a dilution of 1:100 for 1h at RT. After washing, bound antibody was detected using a goat anti-rabbit IgG AlexaFluor 488 antibody at a dilution of 1:1000 and cells analyzed using 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

Products Related to NBP3-21452-0.2mg

HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
210-TA-005	TNF-alpha [Unconjugated]
1960-FC-050	Fc gamma RIII (CD16) [Unconjugated]

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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