

Fc gamma receptor III Recombinant Antibody

Anti-Fc gamma receptor III [3G8]

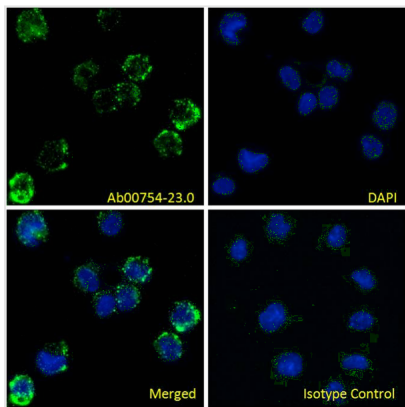
CATALOG #	REACTIVITY	APPLICATIONS
AAA72003	Human, Chimpanzee, Baboon, Cynomolgus, Rhesus, Pigtailed Macaque, Capuchin Monkey, Squirrel Monkey, Sooty Mangabey, Cotton-topped Tamarin, Marmoset	Immunohistochemistry, Immunoprecipitation, Flow Cytometry, Functional Assay

PRODUCT SYNONYMS

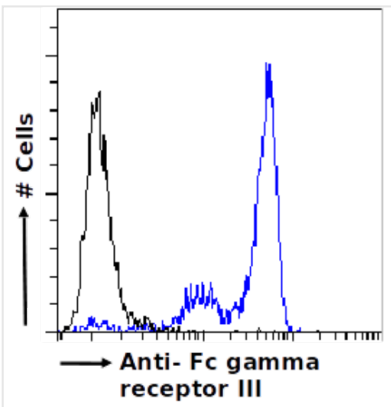
Fc gamma receptor III; Monoclonal Recombinant Antibody; Anti-Fc gamma receptor III [3G8]; CD16; low affinity IgG receptor III; FcgammaRIII; low affinity FcgammaRIII; Fc gamma receptor III recombinant antibody

PRODUCT SPECIFICATIONS

Reactivity	Human, Chimpanzee, Baboon, Cynomolgus, Rhesus, Pigtailed Macaque, Capuchin Monkey, Squirrel Monkey, Sooty Mangabey, Cotton-topped Tamarin, Marmoset
Clonality	Monoclonal
Isotype	Rabbit IgG, Kappa
Clone Number	3G8
Specificity	3G8 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).
Purity/Purification	Protein A Affinity Purified
Concentration	1 mg/ml (varies by lot)
Sequence Length	85
Applicable Applications for Fc gamma receptor III recombinant antibody	Blocking, IHC (Immunohistochemistry), IP (Immunoprecipitation), SPR (Surface Plasmon Resonance), FCM/FACS (Flow Cytometry)
Immunogen	3G8 was prepared by immunizing mice with human PMN (polymorphonuclear leukocytes) cells.
Buffer Composition	PBS only with 0.02% Proclin 300.
Chimeric Use Statement	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.
Labeled Substance	None
Preparation and Storage	Store at 4 degree C for up to 3 months. For longer storage, aliquot and store at -20 degree C.



IF (Immunofluorescence)
Immunofluorescence staining of fixed U937 cells with anti-Fc gamma receptor III antibody 3G8 (Ab00754) Immunofluorescence analysis of paraformaldehyde fixed U937 cells permeabilized with 0.15% Triton and stained with the chimeric mouse IgG1 version of 3G8 (Ab00754-23.0) at 10 ug/ml for 1h followed by Alexa Fluor® 488 secondary antibody (2 ug/ml), showing membrane staining. The nuclear stain is DAPI (blue). Panels show from left-right, top-bottom Ab00754-23.0, DAPI, merged channels and an isotype control. The isotype control was stained with an anti-unknown specificity antibody (Ab178-23.0) followed by Alexa Fluor® 488 secondary antibody.



FCM/FACS (Flow Cytometry)
Flow-cytometry using the anti-Fc gamma receptor III antibody 3G8 (Ab00754) Human peripheral blood leukocytes were fixed using 2% PFA, permeabilised using 0.5% Triton and stained with unimmunized rabbit IgG antibody (MOPC-21; isotype control, black line) or the rabbit IgG-chimeric version of 3G8 (Ab00754-23.0, 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.

ADDITIONAL INFORMATION

Related Product Information for Fc gamma receptor III recombinant antibody	Recombinant monoclonal antibody to Fc gamma receptor III. Manufactured using a proprietary Recombinant Platform with variable regions (i.e. specificity) from the hybridoma 3G8. 3G8 was prepared by immunizing mice with human PMN (polymorphonuclear leukocytes) cells.
Product Categories/Family for Fc gamma receptor III recombinant antibody	Cancer; Leukaemia; ADCC; CD Marker; Immunology; Adaptive Immunity
References	Bruenke et al. A recombinant bispecific single-chain Fv antibody against HLA class II and FcgammaRIII (CD16) triggers effective lysis of lymphoma cells. Br J Haematol. 2004 Apr; 125(2):167-79. PMID:15059139

NCBI AND UNIPROT INFORMATION

NCBI GI #	74721040
UniProt Accession #	Q9ULV2
Molecular Weight	9,543 Da
NCBI Official Full Name	Fc-gamma receptor IIIb (CD16)
UniProt Protein Name	Fc-gamma receptor IIIb (CD16)

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://stage.aaabiotech.com/monoclonal/fc-gamma-receptor-iii-recombinant-antibody-clone-3g8-immunohistochemistry-immunoprecipitation-surface-plasmon-resonance-flow-cytometry-elisa/72003>