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Diagnostik & molekulare Diagnostik



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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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Anti-Fc gamma receptor III [3G8] Bulk Size Ab00754-10.3-BT

This antibody was created using our proprietary Fc Silent™ engineered Fc domain containing key point mutations that abrogate binding to Fc gamma receptors.

This chimeric human antibody was made using the variable domain sequences of the original Mouse IgG1 format, for improved compatibility with existing reagents, assays and techniques.

Isotype and Format: Human IgG1, Fc Silent™, Kappa

Clone Number: 3G8

Alternative Name(s) of Target: CD16; low affinity IgG receptor III; FcγRIII; low affinity FcγRIII

UniProt Accession Number of Target Protein: Q9ULV2

Published Application(s): Depletion, IP, SPR, Block, FC, IHC

Published Species Reactivity: Baboon, Capuchin Monkey, chimpanzee, Cotton-topped Tamarin, Cynomolgus, Marmoset, Pigtailed Macaque, Rhesus, Sooty Mangabey, Squirrel Monkey, Human

Immunogen: 3G8 was prepared by immunizing mice with human PMN (polymorphonuclear leukocytes) cells.

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).

Application Notes: 3G8 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.

Antibody First Published in: Bruenke et al. A recombinant bispecific single-chain Fv antibody against HLA class II and FcγRIII (CD16) triggers effective lysis of lymphoma cells. Br J Haematol. 2004 Apr;125(2):167-79. [PMID:15059139](#)

Note on publication: Describes the construction and characterisation of recombinant bsscFv capable of targeting CD16+ immune cells to malignant B cells resulting in ADCC.

Product Form

Size: 1 mg Purified antibody in bulk size.

Purification: Protein A affinity purified

Supplied In: PBS only.

Storage Recommendation: Store at 4°C for up to 3 months. Note, this antibody is provided without added preservatives, it is therefore recommended this antibody be handled under sterile conditions. For longer storage, aliquot and store at -20°C.

Concentration: 1 mg /ml.

Important note – This product is for research use only. It is not intended for use in therapeutic or diagnostic procedures for humans or animals.