

ABflo® 700 Rabbit anti-Human/Monkey CD19 mAb

Catalog NO.: A27165

Basic Information

Observed MW

Calculated MW

Category

Monoclonal Antibodies

Applications

FC

Cross-Reactivity

Human, Cynomolgus

Conjugation

ABflo® 700. Ex:690nm. Em:713nm.

Clone number

ARC57915

Background

This gene encodes a member of the immunoglobulin gene superfamily. Expression of this cell surface protein is restricted to B cell lymphocytes. This protein is a reliable marker for pre-B cells but its expression diminishes during terminal B cell differentiation in antibody secreting plasma cells. The protein has two N-terminal extracellular Ig-like domains separated by a non-Ig-like domain, a hydrophobic transmembrane domain, and a large C-terminal cytoplasmic domain. This protein forms a complex with several membrane proteins including complement receptor type 2 (CD21) and tetraspanin (CD81) and this complex reduces the threshold for antigen-initiated B cell activation. Activation of this B-cell antigen receptor complex activates the phosphatidylinositol 3-kinase signalling pathway and the subsequent release of intracellular stores of calcium ions. This protein is a target of chimeric antigen receptor (CAR) T-cells used in the treatment of lymphoblastic leukemia. Mutations in this gene are associated with the disease common variable immunodeficiency 3 (CVID3) which results in a failure of B-cell differentiation and impaired secretion of immunoglobulins. CVID3 is characterized by hypogammaglobulinemia, an inability to mount an antibody response to antigen, and recurrent bacterial infections. Alternative splicing results in multiple transcript variants encoding distinct isoforms.

Recommended Dilutions

FC 5 µl per 10⁶ cells in 100 µl volume

Immunogen Information

Gene ID

Hu 930 /Cyno 102145514

Swiss Prot

Immunogen

Recombinant protein (or fragment).This information is considered to be commercially sensitive.

Synonyms

CD19

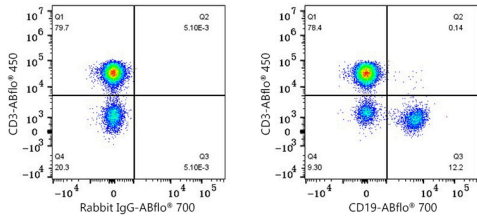
Contact

Product Information

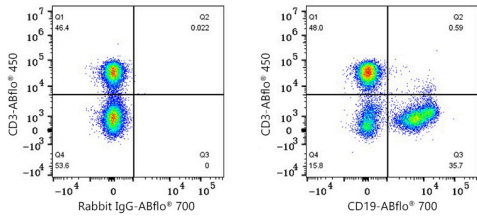
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Source	Isotype	Purification
Rabbit	IgG	Affinity purification
Storage		
Store at 2-8°C. Avoid freeze.		
Buffer: PBS with 0.09% Sodium azide,0.2% BSA,pH7.3.		

Validation Data



Flow cytometry:1X10⁶ Human PBMC were surface-stained with ABflo® 450 Rabbit anti-Human/Monkey CD3 mAb (A27177,5 µl/Test) and ABflo® 700 Rabbit IgG isotype control (A25976,5 µl/Test, left) or ABflo® 700 Rabbit anti-Human/Monkey CD19 mAb (A27165,5 µl/Test, right). Cells in the lymphocyte gate were used for analysis.



Flow cytometry:1X10⁶ Cynomolgus PBMC were surface-stained with ABflo® 450 Rabbit anti-Human/Monkey CD3 mAb (A27177,5 µl/Test) and ABflo® 700 Rabbit IgG isotype control (A25976,5 µl/Test, left) or ABflo® 700 Rabbit anti-Human/Monkey CD19 mAb (A27165,5 µl/Test, right). Cells in the lymphocyte gate were used for analysis.

