

iFluor™ 680 Anti-human CD19 Antibody *4G7*

Catalog number: 101930I0, 101930I1

Unit size: 100 tests, 500 tests

Product Details

Storage Conditions 2-8°C with minimized light exposure. Do not freeze.

Expiration Date 12 months upon receiving

Concentration 0.1 mg/mL

Formulation Phosphate-buffered saline (PBS, pH 7.2), 0.09% sodium azide, 0.2% (w/v) BSA

Antibody Properties

Species Reactivity Human

Class Primary

Clonality Monoclonal

Host Mouse

Isotype Mouse igg1

Immunogen CD19 (B4)

Clone 4G7

Conjugate iFluor™ 680

Biological Properties

Appearance Blue liquid

Preparation Antibody purified by affinity chromatography and then conjugated with iFluor™ 680 under

optimal conditions

Application Flow Cytometry (FACS), Fluorescence Imaging

Spectral Properties

Conjugate iFluor™ 680

Excitation Wavelength 684 nm

Emission Wavelength 701 nm

Applications

The 4G7 monoclonal antibody binds with human CD19, a 95 kD transmembrane protein commonly expressed on the surface of B cells and lymphocytes. CD19 plays a role in essential cellular pathways, for example, the antigen receptor-mediated signaling pathway and B cell receptor signaling pathway. Moreover, in some organisms, it acts to positively regulate phosphatidylinositol 3-kinase activity, is an enhancer of protein

kinase B signaling and is involved in the positive regulation of release of sequestered calcium ion into cytosol. From a research standpoint, it is of biological interest due to its association with important macromolecules/ligands such as Fyn and Pl3-kinase. CD19 is a very popular antibody target, with over 30000 publications in the last decade. CD19 is essential for immunology research, commonly serving as a phenotypic marker for differentiating cell types in flow cytometric applications. This antibody was purified through affinity chromatography and conjugated to iFluor[™] 680 (ex/em = 684/701 nm).