

# PE/XFD700 Anti-mouse CD19 Antibody \*1D3, XFD700 Same Structure to Alexa Fluor™ 700\*

Catalog number: 10194100, 10194101, 10194102 Unit size: 25 tests, 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 Mouse

Class Primary

Clonality Monoclonal

Host Rat

Isotype Rat IgG2a, κ

Immunogen CD19 (B4)

Clone 1D3

Conjugate PE/AF700

## **Biological Properties**

Preparation Antibody purified by affinity chromatography and then conjugated with PE/AF700 under optimal conditions

Application Flow Cytometry (FACS)

## **Spectral Properties**

Conjugate PE/AF700

Excitation Wavelength 566 nm

Emission Wavelength 721 nm

### **Applications**

1D3 is an anti-mouse monoclonal antibody that is specific for the CD19 antigen. CD19 (sometimes referred to as B4) is a 95 kD transmembrane glycoprotein that is expressed on the surface of cells like B cells and stem cells. CD19 plays a role in essential cellular pathways, namely, the antigen receptor-mediated signaling pathway and B cell receptor signaling pathway. In addition, in some organisms, it is an enhancer of release of sequestered calcium ion into cytosol, is a promoter of protein kinase B signaling and is a positive regulator of phosphatidylinositol 3-kinase activity. From a research standpoint, it is of biological interest due to its association with vital macromolecules/ligands like CD225, CD81,

PI3-kinase and fyn. CD19 is a very popular antibody target, with over 36000 publications in the last decade. CD19 has been widely used in costimulatory molecules and 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 PE/XFD700 (ex/em = 566/721 nm). XFD700 is manufactured by AAT Bioquest, and it has the same chemical structure of Alexa Fluor® 700 (Alexa Fluor® is the trademark of ThermoFisher). It is compatible with the 561 nm laser and 695/40 nm bandpass filter (for example, as in the Agilent Technologies NovoCyte).