

# XFD647 Anti-human CD21 Antibody \*HI21a, XFD647 Same Structure to Alexa Fluor™ 647\*

Catalog number: 10210180, 10210181 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 IgG2a

Immunogen CD21 (CR2, C3dR, Epstein-Barr virus receptor)

Clone HI21a

Conjugate AF647

# **Biological Properties**

Appearance Dark blue liquid

Preparation Antibody purified by affinity chromatography and then conjugated with AF647 under optimal

conditions

Application Flow Cytometry (FACS), Fluorescence Imaging

# **Spectral Properties**

Conjugate AF647

Excitation Wavelength 650 nm

Emission Wavelength 671 nm

## **Applications**

The HI21a monoclonal antibody recognizes human CD21, a 145 kD transmembrane glycoprotein frequently expressed on the surface of thymocytes and dendritic cells. CD21 plays a role in vital cellular pathways, namely, the complement activation, classical pathway. In addition, it

has been associated with vital biological processes like immune response, specifically innate immune response. From a research standpoint, it is of biological interest due to its association with essential macromolecules/ligands such as CD19, CD23 and C3d. CD21 is a fairly uncommon antibody target, with a little more than 5000 publications in the last decade. Even still, CD21 is essential for complement, innate immunity and immunology research, often serving as a phenotypic marker for differentiating cell types in flow cytometric applications. This antibody was purified through affinity chromatography and conjugated to XFD647 (ex/em = 650/671 nm). XFD647 is manufactured by AAT Bioquest, and it has the same chemical structure of Alexa Fluor® 647 (Alexa Fluor® is the trademark of ThermoFisher). It is compatible with the 642 nm laser and 702/87 nm bandpass filter (for example, as in the Luminex Amnis CellStream).