XFD594 Anti-human CD123 Antibody *6H6, XFD594 Same Structure to Alexa Fluor™ 594*

Catalog number: 11230170, 11230171
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	CD123 (IL-3Rα)
Clone	6H6
Conjugate	AF594

Biological Properties

Appearance	Purple liquid
Preparation	Antibody purified by affinity chromatography and then conjugated with AF594 under optimal conditions
Application	Flow Cytometry (FACS), Fluorescence Imaging

Spectral Properties

Conjugate	AF594
Excitation Wavelength	590 nm
Emission Wavelength	618 nm

Applications

The 6H6 monoclonal antibody reacts with human CD123, a 70 kD member of the Ig superfamily frequently expressed on the surface of megakaryocytes and macrophages. CD123 is involved with vital cellular pathways, namely, the cytokine-mediated signaling pathway. From a

research standpoint, it is of biological interest due to its association with critical macromolecules/ligands such as CD131 and IL-3. CD123 is a fairly uncommon antibody target, with a little more than 3000 publications in the last decade. Even still, CD123 has been widely used in 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 XFD594 (ex/em = 590/618 nm). XFD594 is manufactured by AAT Bioquest, and it has the same chemical structure of Alexa Fluor® 594 (Alexa Fluor® is the trademark of ThermoFisher). It is compatible with the 592 nm laser and 610/30 nm bandpass filter (for example, as in the Luminex Amnis ImageStream).