

# APC/XFD750 Anti-human CD40 Antibody \*G28.5\*

Catalog Number: 104011E0, 104011E1, 104011E2

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 Lot specific (please consult certificate of analysis for given lot)

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, κ

Immunogen CD40 (BP50, TNFRSF5)

Clone G28.5

Conjugate APC/AF750

#### **Biological Properties**

Antibody purified by affinity chromatography and then conjugated with APC/AF750 under optimal Preparation

conditions

Application Flow Cytometry (FACS)

For flow cytometry applications, the suggested concentration is at 5 uL/million cells in 100 uL staining

buffer. For the best performance of each application, the optimal concentration of this reagent needs

Recommended

to be carefully determined.

Dilutions

\*The suggested working dilution is provided as a guide only. It is recommended that the users titrates

the product for use in their tests using proper positive and negative controls.

#### **Spectral Properties**

Conjugate APC/AF750

Excitation Wavelength 651 nm

Emission Wavelength 785 nm

# **Applications**

G28.5 is an anti-human monoclonal antibody that targets the CD40 antigen. CD40 (also known as Bp50) is a 48 kD transmembrane protein that is expressed on the surface of cells like macrophages, dendritic cells and stem cells. CD40 is a component of key cellular pathways, in particular, the tumor necrosis factor-mediated signaling pathway, immune response-regulating cell surface receptor signaling pathway and CD40 signaling pathway. Also, in many organisms, it upregulates interleukin-12 production, is a positive regulator of isotype switching to IgG isotypes and is a promoter of protein phosphorylation. From a research standpoint, it is of biological interest due to its association with vital macromolecules/ligands like CD40L, CD154 and TRAP. CD40 is a very popular antibody target, with over 30000 publications in the last decade. CD40 is often used in flow cytometry applications as a phenotypic marker for differentiation of cell types, especially in the study of neuroscience. This antibody was purified through affinity chromatography and conjugated to APC/XFD750 (ex/em = 756/785 nm). XFD750 is manufactured by AAT Bioquest, and it has a chemical structure similar to that of Alexa Fluor® 750 (Alexa Fluor® is the trademark of Thermo Fisher).