

# XFD700 Anti-human CD40 Antibody \*G28.5\*

Catalog Number: 104011A0, 104011A1

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 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

Mouse igg1, κ Isotype

**Immunogen** CD40 (BP50, TNFRSF5)

Clone G28.5

AF700 Conjugate

#### **Biological Properties**

**Appearance** Dark blue liquid

Antibody purified by affinity chromatography and then conjugated with AF700 under optimal

conditions

Application Flow Cytometry (FACS), Fluorescence Imaging

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

Preparation

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 AF700

Excitation Wavelength 696 nm

Emission Wavelength 719 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 XFD700 (ex/em = 696/719 nm). XFD700 is manufactured by AAT Bioquest, and it has a chemical structure similar to that of Alexa Fluor® 700 (Alexa Fluor® is the trademark of Thermo Fisher).