

# XFD750 Anti-human CD109 Antibody \*W7C5\*

Catalog Number: 110901A0, 110901A1

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 Isotype

**Immunogen** CD109 (CPAMD7, Gov platelet alloantigen)

Clone W7C5

AF750 Conjugate

#### **Biological Properties**

**Appearance** Dark blue liquid

Antibody purified by affinity chromatography and then conjugated with AF750 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 AF750

Excitation Wavelength 752 nm

Emission Wavelength 776 nm

## **Applications**

The W7C5 monoclonal antibody binds with human CD109, a 162 kD transmembrane protein typically expressed on the surface of T cells and T cell lines. CD109 acts in essential cellular pathways, for instance, the negative regulation of transforming growth factor beta receptor signaling pathway. Additionally, in some organisms, it is a suppressor of transforming growth factor beta receptor signaling pathway, is a repressor of wound healing and is a repressor of keratinocyte proliferation. From a research standpoint, it is of biological interest due to its association with critical macromolecules/ligands. CD109 is a relatively rare antibody target, with fewer than 600 publications in the last decade. Even still, CD109 is vital to immunology research, frequently serving as a phenotypic marker for differentiating cell types in flow cytometric applications. This antibody was purified through affinity chromatography and conjugated to XFD750 (ex/em = 752/776 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).