

# XFD750 Anti-human CD107 Antibody \*H4B4\*

Catalog Number: 110711A0, 110711A1

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

Isotype Mouse IgG1 kappa

Immunogen CD107b (LAMP2, LAMPb)

Clone H4B4

Conjugate AF750

#### **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**

H4B4 is an anti-human monoclonal antibody that targets the CD107b antigen. CD107b (sometimes called LAMP2 or LAMPb) is a 45 kD transmembrane protein that is found on the surface of cells like granulocytes and endothelial cells. In many organisms, CD107 is a suppressor of protein-containing complex assembly. Additionally, it has been associated with essential biological processes like chaperone-mediated autophagy, particularly protein targeting to lysosome involved in chaperone-mediated autophagy. From a research standpoint, it is of biological interest due to its association with vital macromolecules/ligands. CD107 is a relatively rare antibody target, with fewer than 800 publications in the last decade. Even still, CD107b is typically used in flow cytometry applications as a phenotypic marker for differentiation of cell types, specifically in the study of protein trafficking and clearance and neuroscience. 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).