

# PE/XFD700 Anti-human CD107 Antibody \*H4B4\*

Catalog Number: 11071100, 11071101, 11071102

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 kappa

Immunogen CD107b (LAMP2, LAMPb)

Clone H4B4

Conjugate PE/AF700

### **Biological Properties**

Antibody purified by affinity chromatography and then conjugated with PE/AF700 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 PE/AF700

Excitation Wavelength 565 nm

Emission Wavelength 721 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 PE/XFD700 (ex/em = 566/721 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). It is compatible with the 561 nm laser and 720/60 nm bandpass filter (for example, as in the Bio-Rad ZE5 Cell Analyzer).