PE-Labeled Monoclonal Anti-Whitlow 218 linker Antibody, Rabbit IgG (P3C09) (0.03% Proclin)

Catalog # 218-PCFMY3

Source

PE-Labeled Monoclonal Anti-Whitlow 218 linker Antibody, Rabbit IgG (P3C09) is a monoclonal antibody recombinantly expressed from HEK293 cells, which provides higher batch consistency and long term security of supply.

Application

Flow Cytometry (Evaluation of CAR and SCFV containing 218 linker on Human cells).

Clone

P3C09

Species

Rabbit

Isotype

Rabbit IgG | Rabbit Kappa

Specificity

This product is a specific antibody specifically reacts with CAR or scFv containing the 218 linker sequence.

Reactivity

Human

Immunogen

Purified 218 linker protein.

Conjugate

PE

Excitation Wavelength: 488 nm / 561 nm

Emission Wavelength: 575 nm

Recommended Dilution

1:50

Formulation

Lyophilized from 0.22 μm filtered solution in PBS, pH7.4, 0.2% BSA, 0.03% Proclin300 with trehalose as protectant.

Contact us for customized product form or formulation.

Reconstitution

Please see Certificate of Analysis for specific instructions.

For best performance, we strongly recommend you to follow the reconstitution protocol provided in the CoA.

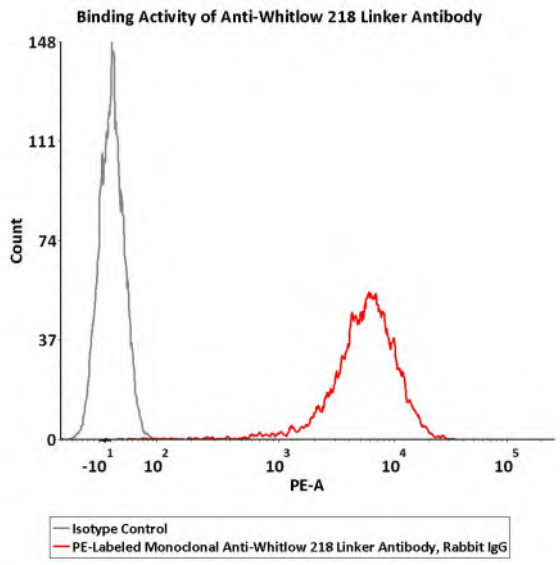
Storage

Please protect from light and avoid repeated freeze-thaw cycles.

This product is stable after storage at:

- The product MUST be stored at -70°C or lower upon receipt;
- -70°C for 12 months under sterile conditions.

Bioactivity-FACS



Flow cytometric analysis of Anti-BCMA (C11D5.3) CAR 293 cells staining with PE-Labeled Monoclonal Anti-Whitlow 218 linker Antibody, Rabbit IgG (P3C09) (Cat. No. 218-PCFMY3) at 1:50 dilution (2 µL of the antibody stock solution corresponds to labeling of 1e6 cells in a final volume of 100 µL). PE signal was used to evaluate the binding activity (QC tested).

Background

The whitlow/218 linker, with the sequence GSTSGSGKPGSGEGSTKG, is a commonly used synthetic peptide linker. Whitlow/218 linker often leveraged to connect the variable heavy (VH) domain and variable light (VL) domain of single-chain variable fragments (scFvs) and chimeric antigen receptors (CARs) that utilize an extracellular domain scFv for target antigen recognition. The scFv containing the 218 linker showed reduced aggregation and was found to be more stable to proteolysis in vitro.

Clinical and Translational Updates