PE-Labeled Human SLAMF7 / CRACC / CD319 Protein, His Tag (Site-specific conjugation)

Catalog # SL7-HP2H3

Synonym

SLAMF7, CD319, CS1, CRACC, 19A, FOAP-12

Source

PE-Labeled Human SLAMF7, His Tag (SL7-HP2H3) is produced via site-specific conjugation of PE to Human SLAMF7, His Tag under optimal conditions with a proprietary technology. Human SLAMF7, His Tag is expressed from human 293 cells (HEK293). It contains AA Ser 23 - Met 226 (Accession # Q9NQ25-1).
Predicted N-terminus: Ser 23

Molecular Characterization

This protein carries a polyhistidine tag at the C-terminus.

The protein has a calculated MW of 25.6 kDa.

Conjugate

PE

Excitation Wavelength: 488 nm / 561 nm

Emission Wavelength: 575 nm

Application

Evaluation of anti-SLAMF7 CAR expression by flow cytometry. Please note that this product is NOT compatible to streptavidin detection system.

Formulation

Lyophilized from 0.22 μm filtered solution in PBS, 0.5% BSA, pH7.4 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

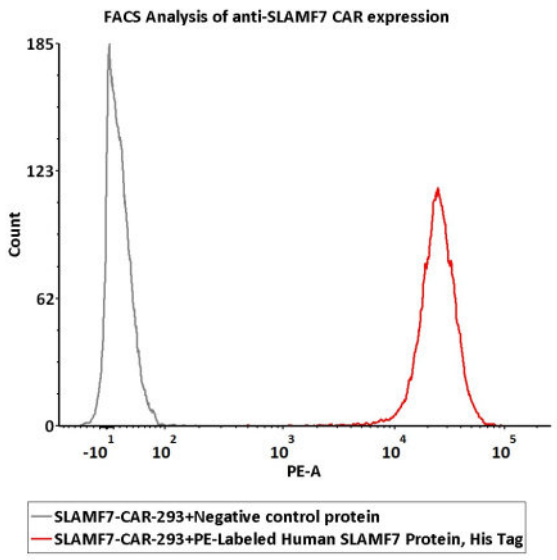
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

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

This product is stable after storage at:

- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

Bioactivity-FACS



1e6 of the anti-SLAMF7 CAR-293 cells were stained with 100 μL of 1:50 dilution (2 μL stock solution in 100 μL FACS buffer) of PE-Labeled Human SLAMF7, His Tag (Cat. No. SL7-HP2H3) and negative control protein respectively, PE signals was used to evaluate the binding activity (QC tested).

Background

SLAM family member 7 (SLAMF7) is also known as CD2-like receptor-activating cytotoxic cells (CRACC), Membrane protein FOAP-12, CD antigen CD319, Novel Ly9, Protein 19A, which is a single-pass type I membrane protein and a member of the CD2 family of cell surface receptors. SLAMF7 is expressed in spleen, lymph node, peripheral blood leukocytes, bone marrow, small intestine, stomach, appendix, lung and trachea. Isoform 1 of SLAMF7 mediates NK cell activation through a SH2D1A-independent extracellular signal-regulated ERK-mediated pathway. May play a role in lymphocyte adhesion. Isoform 3 of SLAMF7 does not mediate any NK cell activation.