



Synonym

CLEC12A, MICL, CLL-1, CLL1, DCAL2, DCAL-2, CD371

Source

PE-Labeled Human CLEC12A, His Tag (CLA-HP2Q3) is produced via site-specific conjugation of PE to Human CLEC12A, His Tag under optimal conditions with a proprietary technology. Human CLEC12A, His Tag is expressed from human 293 cells (HEK293). It contains AA His 65 - Ala 265 (Accession # [Q5QGZ9-2](#)).

Predicted N-terminus: Gly

Molecular Characterization

Poly-his CLEC12A(His 65 - Ala 265)
Q5QGZ9-2

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

The protein has a calculated MW of 27.3 kDa.

Conjugate

PE

Excitation Wavelength: 488 nm / 561 nm

Emission Wavelength: 575 nm

Application

Evaluation of anti-CLEC12A CAR expression by flow cytometry. Please note that this product is NOT compatible to streptavidin detection system.

Formulation

Lyophilized from 0.22 μ m 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

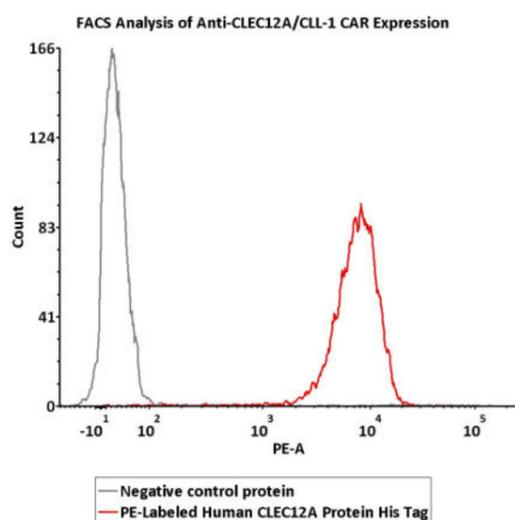
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

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



5e5 of anti-CLEC12A/CLL-1 CAR-293 cells were stained with 100 μ L of 1:50 dilution (2 μ L stock solution in 100 μ L FACS buffer) of PE-Labeled Human CLEC12A, His Tag (Cat. No. CLA-HP2Q3) and negative control protein respectively. PE signal was used to evaluate the binding activity (QC tested).

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Background

CLEC12A (C-type lectin domain family 12 member A) is also known as CLL1, DCAL2, MICL. Clec12a is an inhibitory receptor for uric acid crystals that regulates inflammation in response to cell death. Cell surface receptor that modulates signaling cascades and mediates tyrosine phosphorylation of target MAP kinases. Evidence of distinct disease propagating stem cells in myelodysplastic syndrome (MDS) has emerged in recent years. The role of CLEC12A in MDS, however, remains to be elucidated. Furthermore, CLEC12A has been proposed as a promising marker of leukaemic stem cells in AML.

Clinical and Translational Updates

Please contact us via TechSupport@acrobiosystems.com if you have any question on this product.

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