



## Synonym

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

## Source

APC-Labeled Human CLEC12A Protein, His Tag, premium grade (CLA-HA246) is produced via conjugation of APC to Human CLEC12A Protein, His Tag, premium grade with a new generation site-specific technology under optimal conditions with a proprietary technology. Human CLEC12A Protein, His Tag, premium grade is expressed from human 293 cells (HEK293). It contains AA His 65 - Ala 265 (Accession # [Q5QGZ9-2](#)).

Predicted N-terminus: Gly

*It is produced under our rigorous quality control system that incorporates a comprehensive set of tests including sterility and endotoxin tests. Product performance is carefully validated and tested for compatibility for cell culture use or any other applications in the early preclinical stage. When ready to transition into later clinical phases, we also offer a custom GMP protein service that tailors to your needs. We will work with you to customize and develop a GMP-grade product in accordance with your requests that also meets the requirements for raw and ancillary materials use in cell manufacturing of cell-based therapies.*

## 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

APC

Excitation Wavelength: 640 nm

Emission Wavelength: 661 nm

## Application

Please note that this product is NOT compatible to streptavidin detection system.

## Endotoxin

Less than 0.1 EU per test by the LAL method / rFC method.

## Bioactivity-FACS

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## Sterility

Negative

## Mycoplasma

Negative.

## Formulation

Lyophilized from 0.22 µm filtered solution in PBS, 0.5% rHSA, 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.*

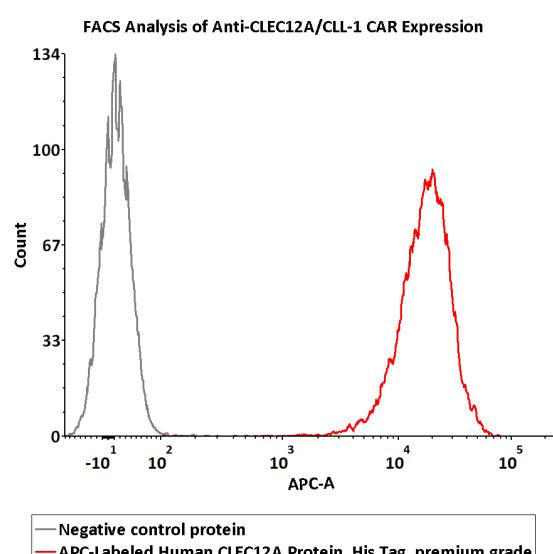
## Storage

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 24 months in lyophilized state;
- -70°C for 12 months under sterile conditions after reconstitution;
- 2-8°C for 12 months under sterile conditions after reconstitution.



5e5 of Anti-CLEC12A/CLL-1 CAR-293 cells were stained with 100  $\mu$ L of 1:25 dilution (4  $\mu$ L stock solution in 100  $\mu$ L FACS buffer) of APC-Labeled Human CLEC12A Protein, His Tag, premium grade (Cat. No. CLA-HA246) and negative control protein respectively. APC signal was used to evaluate the binding activity (QC tested).

## 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.

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