



## Synonym

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

## Source

FITC-Labeled Human CLEC12A, His Tag (CLA-HF247) is expressed from human 293 cells (HEK293). It contains AA His 65 - Ala 265 (Accession # [Q5QGZ9-2](#)). It is the FITC labeled form of Human CLEC12A, His Tag (CLA-H5245).

Predicted N-terminus: His

## Molecular Characterization

Poly-his	CLEC12A(His 65 - Ala 265) Q5QGZ9-2
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This protein carries a polyhistidine tag at the N-terminus.

The protein has a calculated MW of 25.6 kDa. The protein migrates as 35-50 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.

## Conjugate

### FITC

Excitation source: 488 nm spectral line, argon-ion laser

Excitation Wavelength: 488 nm

Emission Wavelength: 535 nm

## Labeling

*The primary amines in the side chains of lysine residues and the N-terminus of the protein are conjugated with FITC using standard chemical labeling method. The residual FITC is removed by molecular sieve treatment during purification process.*

## Protein Ratio

The FITC to protein molar ratio is 2-4.5.

## Purity

>90% as determined by SDS-PAGE.

## Formulation

Lyophilized from 0.22 µm filtered solution in PBS, 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

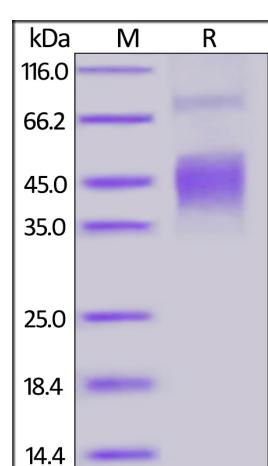
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

*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.

## SDS-PAGE



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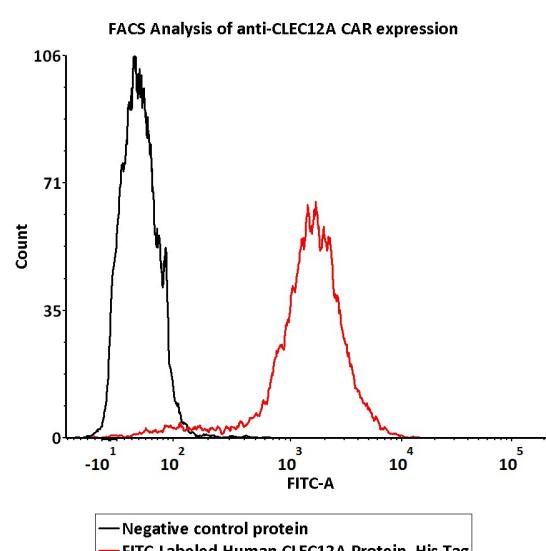


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FITC-Labeled Human CLEC12A, His Tag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 90%.

### Bioactivity-FACS



2e5 of Anti-CLEC12A CAR-293 cells were stained with 100  $\mu$ L of 10  $\mu$ g/mL of FITC-Labeled Human CLEC12A, His Tag (Cat. No. CLA-HF247) and negative control protein respectively. FITC 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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