



## Synonym

Delta3,delta-like 3 (Drosophila),delta-like protein 3,DLL3,Pudgy,SCDO1,SCDO1delta3

## Source

Alexa Fluor 647-Labeled Human DLL3 Protein, His Tag (DL3-HA2H3) is produced via conjugation of AF647 to Human DLL3 Protein, His Tag with a new generation site-specific technology under Star Staining labeling platform. Human DLL3 Protein, His Tag is expressed from human 293 cells (HEK293). It contains AA Ala 27 - Leu 492 (Accession # [Q9NYJ7-1](#)). Predicted N-terminus: Ala 27

## Molecular Characterization

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

## Conjugate

AF647

Excitation Wavelength: 640 nm

Emission Wavelength: 672 nm

## 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:

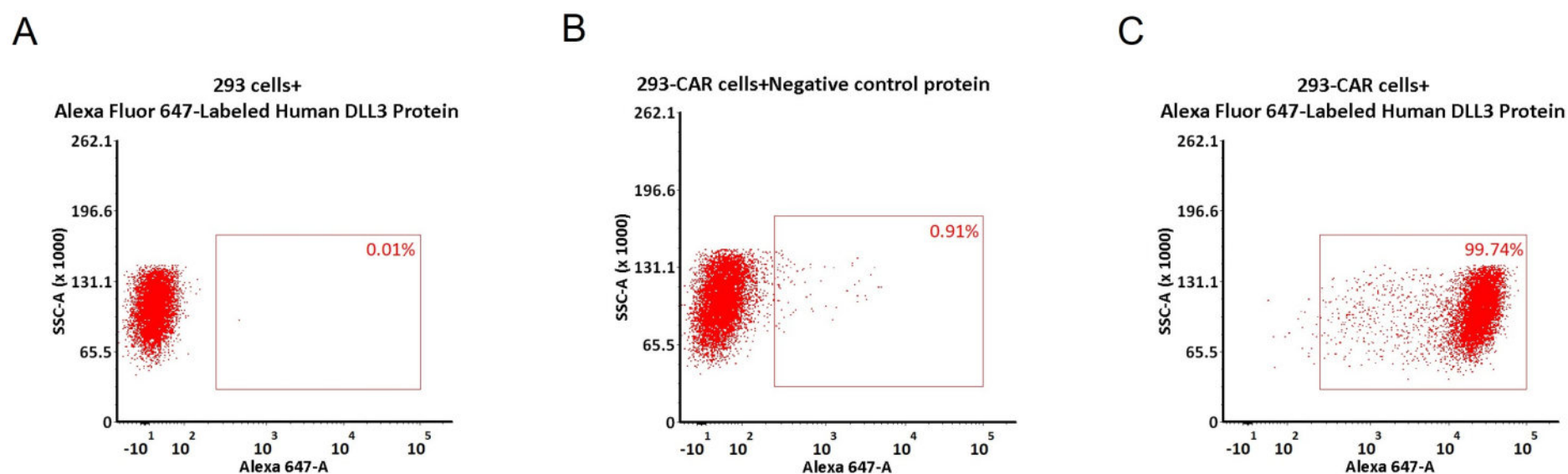
- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

**Star Staining** fluorescent-labeled products are developed by a new-generation site-specific labeling technology with Star Standard quality at ACROBiosystems

- ★ Using new-generation site-specific labeling technology to maintain natural bioactivity.
- ★ High specificity and sensitivity verified by flow cytometry.
- ★ No non-specific binding to non-transduced PBMCs.
- ★ High homogeneity and high batch-to-batch consistency.

## Evaluation of CAR expression

FACS Analysis of Anti-DLL3 CAR Expression



5e5 of anti-DLL3 CAR-293 cells were stained with 100 µL of 1 µg/mL of Alexa Fluor 647-Labeled Human DLL3 Protein, His Tag (Cat. No. DL3-HA2H3) and negative control protein respectively (Fig. C and B), and non-transfected 293 cells were used as a control (Fig. A). Alexa 647 signal was used to evaluate the binding

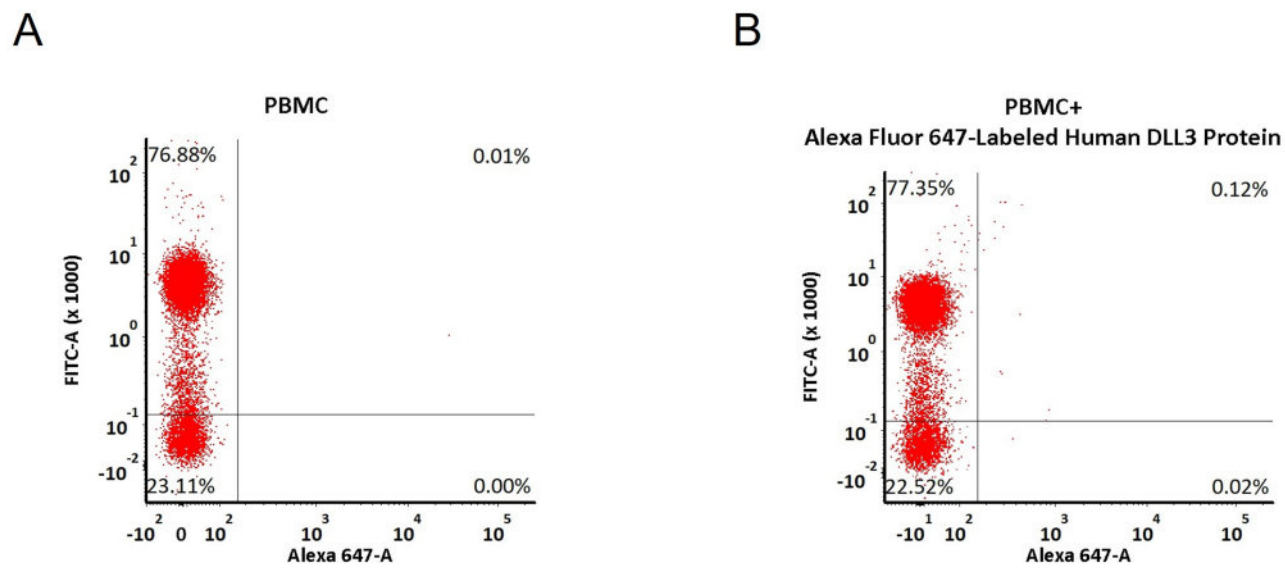
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activity (QC tested).

FACS Analysis of Non-specific binding to PBMCs



5e5 of PBMCs were stained with Alexa Fluor 647-Labeled Human DLL3 Protein, His Tag (Cat. No. DL3-HA2H3) and anti-CD3 antibody, washed and then analyzed with FACS. FITC signal was used to evaluate the expression of CD3<sup>+</sup> T cells in PBMCs, and Alexa 647 signal was used to evaluate the non-specific binding activity to PBMCs (QC tested).

## Background

Delta-like protein 3 (DLL3) is a transmembrane protein that belongs to the Delta/Serrate/Lag-2 (DSL) family of Notch ligands. May be required to divert neurons along a specific differentiation pathway. Plays a role in the formation of somite boundaries during segmentation of the paraxial mesoderm. DLL3 protein is expressed on the surface of tumor cells but not in normal adult tissues.

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