

PE-Labeled Human CD27 Ligand / CD70 Protein, His TagStar Staining

Catalog # CDL-HP246



Synonym

CD70,CD27LG,TNFSF7,TNFSF7G,CD27L

Source

PE-Labeled Human CD27 Ligand Protein, His Tag (CDL-HP246) is produced via conjugation of PE to Human CD27 Ligand Protein, His Tag with a new generation site-specific technology under Star Staining labeling platform. Human CD27 Ligand Protein, His Tag is expressed from human 293 cells (HEK293). It contains AA Ser 52 - Pro 193 (Accession # [P32970-1](#)). Predicted N-terminus: His

Molecular Characterization

This protein carries a polyhistidine tag at the N-terminus.  
The protein has a calculated MW of 61.6 kDa.

Conjugate

PE  
Excitation Wavelength: 488 nm / 561 nm  
Emission Wavelength: 575 nm

Purity

>90% as determined by SDS-PAGE.

Formulation

Lyophilized from 0.22 µm filtered solution in PBS, 0.2% 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.

**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.

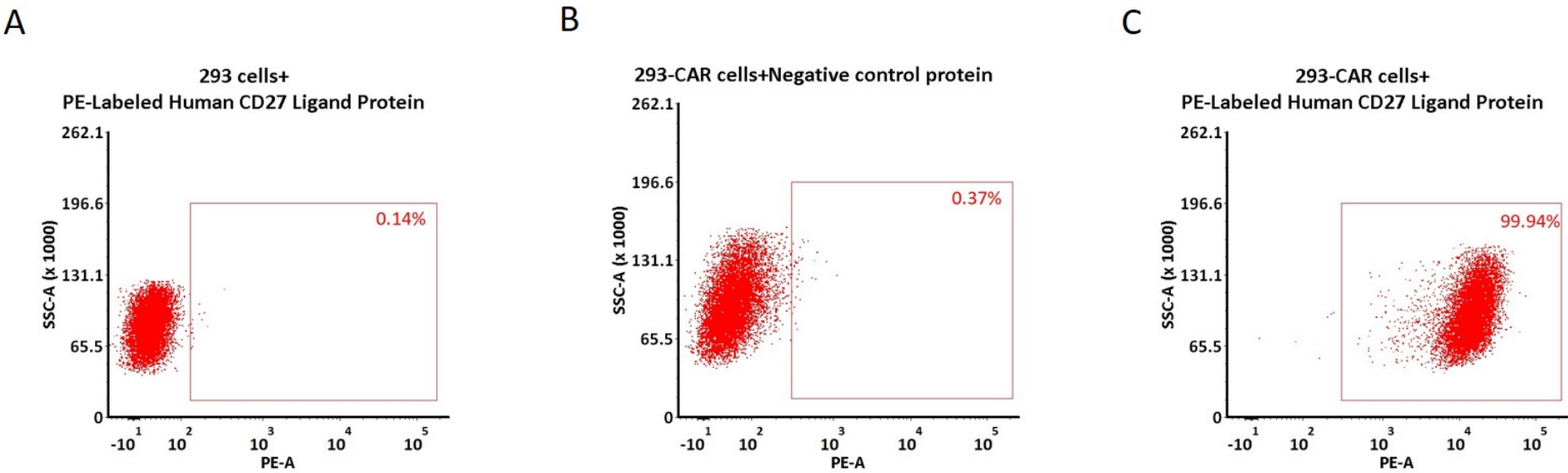
★ No non-specific binding to non-transduced PBMCs.

★ High specificity and sensitivity verified by flow cytometry.

★ High homogeneity and high batch-to-batch consistency.

Evaluation of CAR expression

FACS Analysis of Anti-CD27 Ligand CAR Expression



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BIOSYSTEMS  
**Acro**

5e5 of anti-CD27 Ligand CAR-293 cells were stained with 100  $\mu$ L of 1:50 dilution (2  $\mu$ L stock solution in 100  $\mu$ L FACS buffer) of PE-Labeled Human CD27 Ligand Protein, His Tag (Cat. No.CDL-HP246) and negative control protein respectively (Fig. C and B), and non-transfected 293 cells were used as a control (Fig. A). PE signal was used to evaluate the binding activity (QC tested).

### Background

Cluster of Differentiation 70 (CD70) is also known as CD27 ligand (CD27L / CD27LG), TNFSF7, TNFSF7G, is a type II transmembrane glycoprotein belonging to the TNF superfamily (TNFSF) and is a surface antigen found on activated T-and B-lymphocytes and mature dendritic cells. Binding of CD70 to its receptor CD27 induces in priming, effector functions, differentiation and memory formation of T-cells, and thus is involved in the biological processes including T-cell activation, the proliferation of costimulated T-cells, as well as the generation of cytolytic T-cells. CD70 on T cells provides costimulatory signals that are required for T cell proliferation, clonal expansion and the promotion of effector T cell formation. CD70 on mouse B cell has been shown to inhibit terminal differentiation of activated B cells into plasma cells and enhances commitment to memory B cell responses. CD70 induces proliferation and IFN $\gamma$  production, on NK cells.

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