

Synonym

TNFRSF8,CD30,D1S166E,Ki-1

Source

PE-Labeled Human CD30, His Tag (CD0-HP2E3) is produced via site-specific conjugation of PE to Human CD30, His Tag under optimal conditions with a proprietary technology. Human CD30, His Tag is expressed from human 293 cells (HEK293). It contains AA Phe 19 - Lys 379 (Accession # [NP_001234.2](#)). Predicted N-terminus: Phe 19

Molecular Characterization

CD30(Phe 19 - Lys 379) NP_001234.2	Poly-his
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This protein carries a polyhistidine tag at the C-terminus

The protein has a calculated MW of 41.1 kDa.

Conjugate

PE

Excitation Wavelength: 488 nm / 561 nm

Emission Wavelength: 575 nm

Application

Evaluation of anti-CD30 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.

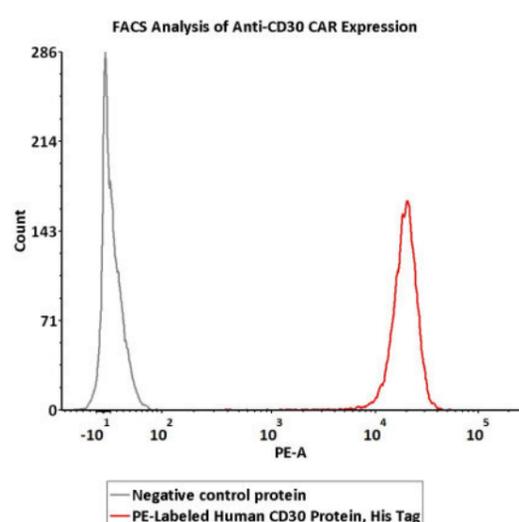
Storage

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

5×10^5 of anti-CD30 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 CD30, His Tag (Cat. No. CD0-HP2E3) and negative control protein respectively. PE signal was used to evaluate the binding activity (QC tested).

Background

Human CD30 is also known as TNFRSF8, is a cell membrane protein of the tumor necrosis factor receptor family and tumor marker. TNFRSF-8 is expressed by activated, but not by resting, T and B cells. Also, CD30 is expressed on classical Hodgkin Lymphoma cells together with CD15. CD30 is the receptor for TNFSF8/CD30L. CD30 can interact with TRAF2 and TRAF5, and mediate the signal transduction that leads to the activation of NF-kappa-B. TNFRSF8 may play a role in the regulation of cellular growth and transformation of activated lymphoblasts. TNFRSF8 is a positive regulator of apoptosis, and also has been shown to limit the proliferative potential of autoreactive CD8 effector T cells and protect the body against autoimmunity.

Clinical and Translational Updates

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