

Alexa Fluor™ 488-Labeled Human CD30 / TNFRSF8 Protein, His Tag (HPLC verified)

Catalog # CD0-HA2H7



Synonyms

TNFRSF8, CD30, D1S166E, Ki-1

Source

Alexa Fluor 488-Labeled Human CD30 Protein, His Tag (CD0-HA2H7) 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

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

The protein has a calculated MW of 40.4 kDa. The protein migrates as 55-95 kDa when calibrated against [Star Ribbon Pre-stained Protein Marker](#) under reducing (R) condition (SDS-PAGE) due to glycosylation.

Conjugate

AF488

Excitation Wavelength: 488 nm

Emission Wavelength: 517 nm

Labeling

The primary amines in the side chains of lysine residues and the N-terminus of the protein are conjugated with AF488 using standard chemical labeling method. The residual AF488 is removed by molecular sieve treatment during purification process.

Protein Ratio

The AF488 to protein molar ratio is 0.5-2.

Purity

>90% as determined by SDS-PAGE.

>90% as determined by SEC-HPLC.

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.

Shipping and Storage

This product is shipped at ambient temperature.

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.

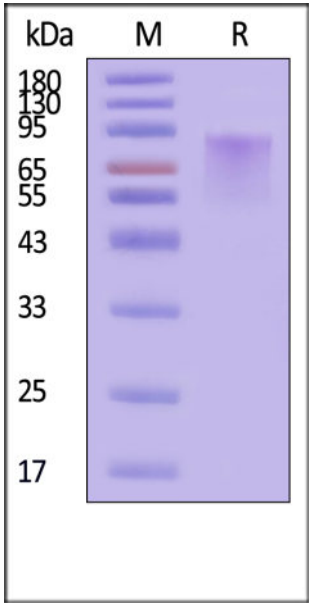
This product is stable after storage at:

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

ACRO Quality Management System

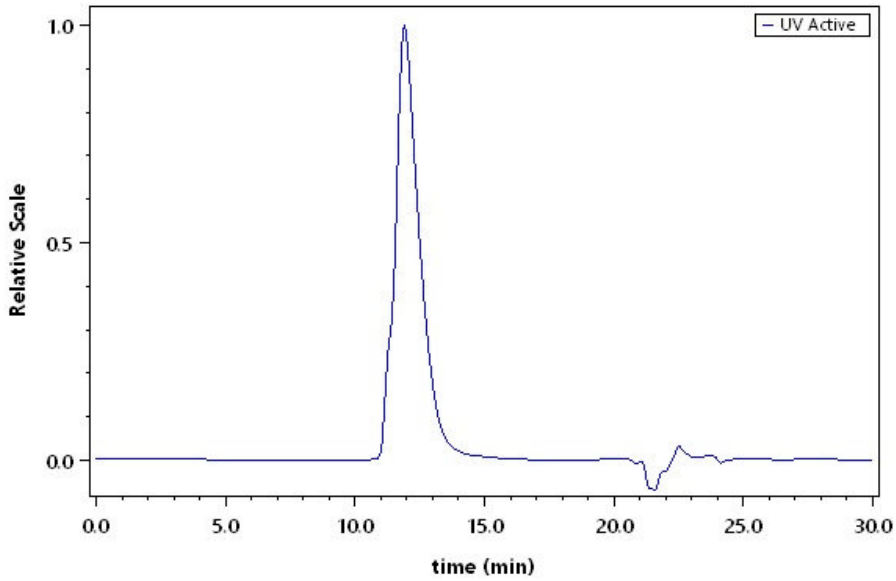
- [QMS\(ISO, GMP\)](#)
- [Quality Advantages](#)
- [Quality Control Process](#)

SDS-PAGE



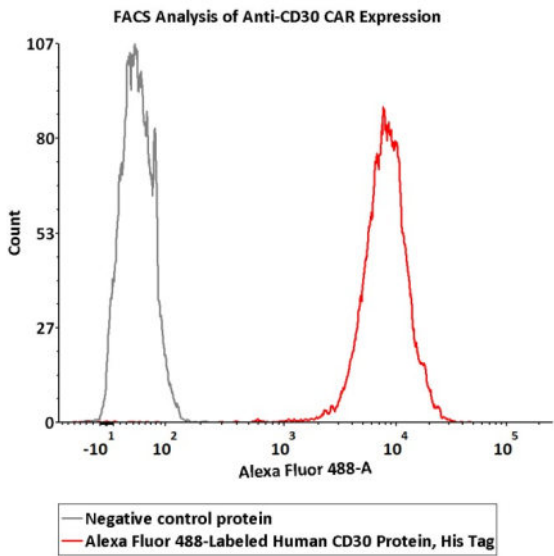
Alexa Fluor 488-Labeled Human CD30 Protein, His Tag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 90% (With [Star Ribbon Pre-stained Protein Marker](#)).

SEC-HPLC



The purity of Alexa Fluor 488-Labeled Human CD30 Protein, His Tag (Cat. No. CD0-HA2H7) was greater than 90% as determined by SEC-HPLC.

Bioactivity-FACS



2e5 of anti-CD30 CAR-293 cells were stained with 100 μ L of 3 μ g/mL of Alexa Fluor 488-Labeled Human CD30 Protein, His Tag (Cat. No. CD0-HA2H7) and negative control protein respectively, washed and analyzed with FACS (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.



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