

**Synonym**

TNFRSF8,CD30,D1S166E,Ki-1

**Source**

FITC-Labeled Human CD30, His Tag (Cat. No. CD0-HF2H3) is expressed from human HEK293 cells. It contains AA Phe 19 - Lys 379 (Accession # [NP\\_001234.2](#)). It is the FITC labeled form of Human CD30, His Tag (Cat. No. CD0-H5229).

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 39.3 kDa. The protein migrates as 60-100 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 seive treatment during purification process.*

**FITC:Protein Ratio**

The FITC to protein molar ratio is 2-3.5.

**Endotoxin**

Less than 1.0 EU per µg by the LAL method.

**Purity**

&gt;90% as determined by SDS-PAGE.

**Formulation**

Lyophilized from 0.22 µm filtered solution in PBS, pH7.4. Normally trehalose is added as protectant before lyophilization.

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.*

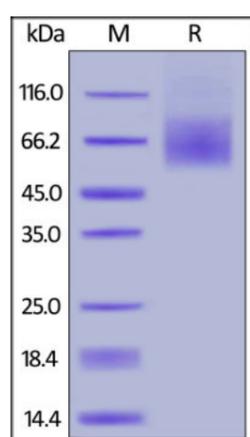
**Storage**

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.*

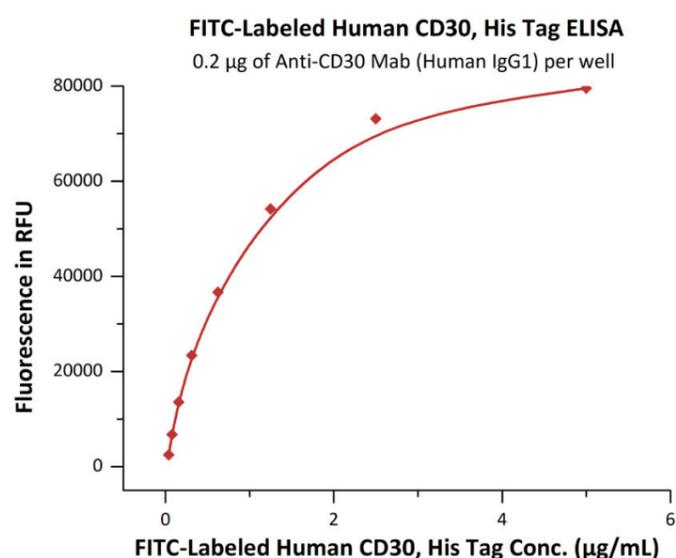
This product is stable after storage at:

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

**SDS-PAGE**

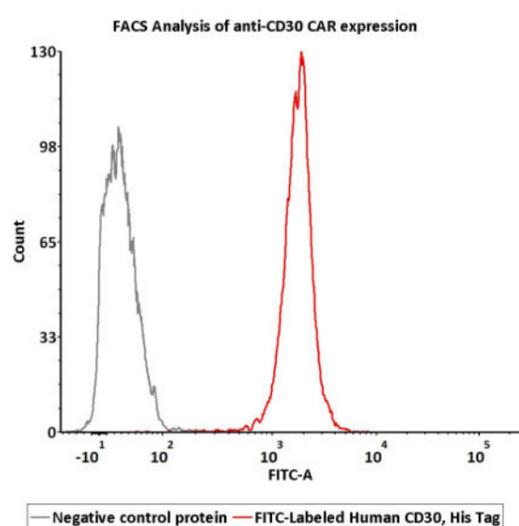
FITC-Labeled Human CD30, His Tag on SDS-PAGE under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 90%.

### Bioactivity-ELISA



Immobilized Anti-CD30 Mab (Human IgG1) at 2 µg/mL (100 µL/well) can bind FITC-Labeled Human CD30, His Tag (Cat. No. [CD0-HF2H3](#)) with a linear range of 0.04-1.25 µg/mL (QC tested).

### Bioactivity-FACS



2e5 of Anti-CD30 CAR-293 cells were stained with 100 µL of 0.3 µg/mL FITC-Labeled Human CD30, His Tag (Cat. No. [CD0-HF2H3](#)) and negative control protein respectively, FITC 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.

### References

- (1) [Gorczyca W., et al., 2003, Int. J. Oncol. 22 \(2\): 319-24.](#)
- (2) [Aizawa S., et al., 1997, J. Biol. Chem. 272 \(4\): 2042-5.](#)
- (3) [Ansieau S., 1996, Proc. Natl. Acad. Sci. U.S.A. 93 \(24\): 14053-8.](#)
- (4) [Lee S.Y., et al., 1996, J. Exp. Med. 183:669-674.](#)

Please contact us via [TechSupport@acrobiosystems.com](mailto:TechSupport@acrobiosystems.com) if you have any question on this product.