



**Synonym**

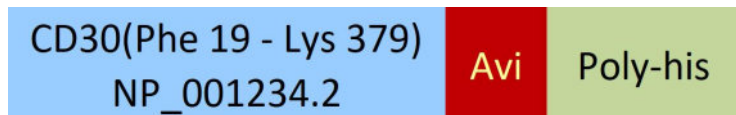
TNFRSF8,CD30,D1S166E,Ki-1

**Source**

Biotinylated Human CD30, Avitag,His Tag(CD0-H82E6) 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**



This protein carries an Avi tag (Avitag™) at the C-terminus, followed by a polyhistidine tag.

The protein has a calculated MW of 41.1 kDa. The protein migrates as 55-90 kDa when calibrated against [Star Ribbon Pre-stained Protein Marker](#) under reducing (R) condition (SDS-PAGE) due to glycosylation.

**Labeling**

*Biotinylation of this product is performed using Avitag™ technology. Briefly, the single lysine residue in the Avitag is enzymatically labeled with biotin.*

**Protein Ratio**

Passed as determined by the HABA assay / binding ELISA.

**Endotoxin**

Less than 0.1 EU per µg by the LAL method.

**Purity**

>95% as determined by SDS-PAGE.

>95% as determined by SEC-MALS.

**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**

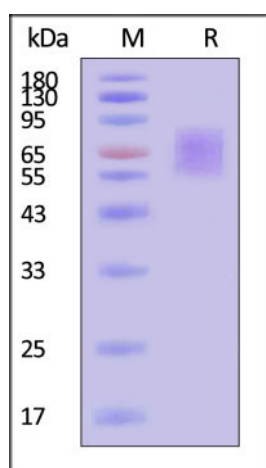
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

*Please 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.

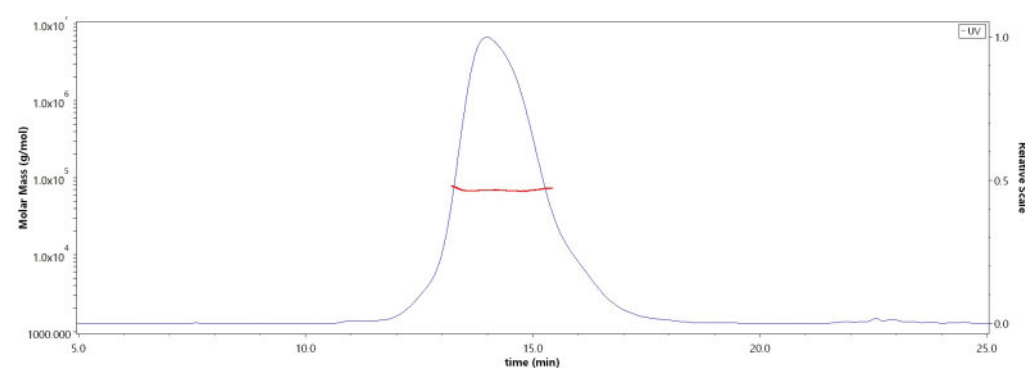
**SDS-PAGE**



Biotinylated Human CD30, Avitag,His Tag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 95% (With [Star Ribbon Pre-stained Protein Marker](#)).

**Bioactivity-ELISA**

**SEC-MALS**

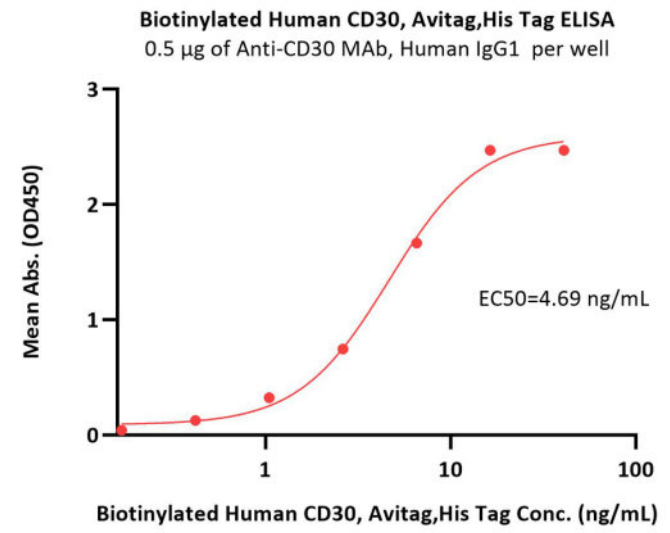
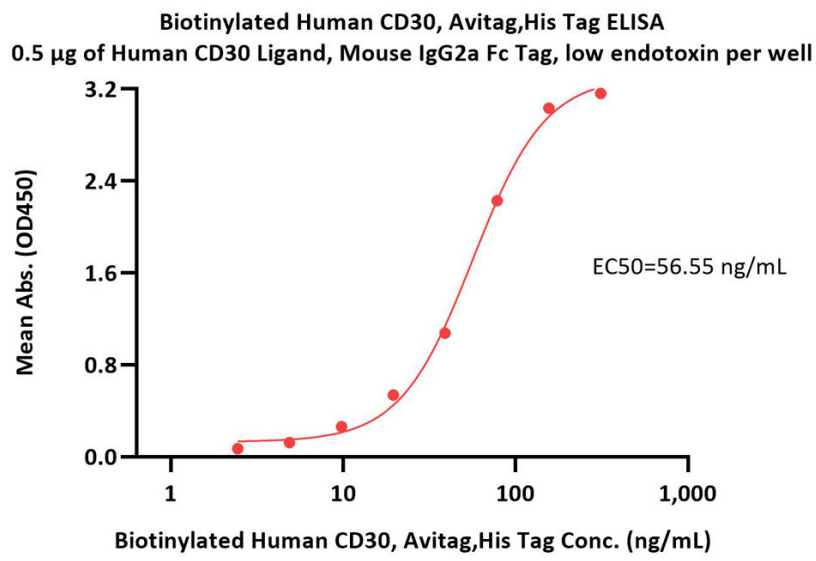


The purity of Biotinylated Human CD30, Avitag,His Tag (Cat. No. CD0-H82E6) is more than 95% and the molecular weight of this protein is around 65-75 kDa verified by SEC-MALS.

[Report](#)

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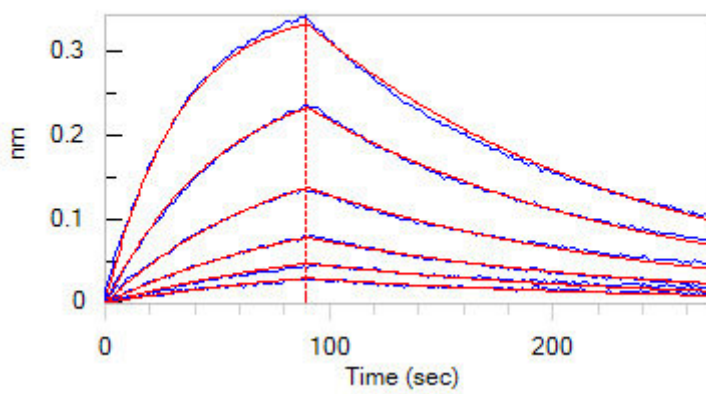




Immobilized Human CD30 Ligand, Mouse IgG2a Fc Tag, low endotoxin (Cat. No. CDL-H525b) at 5 µg/mL (100 µL/well) can bind Biotinylated Human CD30, Avitag,His Tag (Cat. No. CD0-H82E6) with a linear range of 2-78 ng/mL (QC tested).

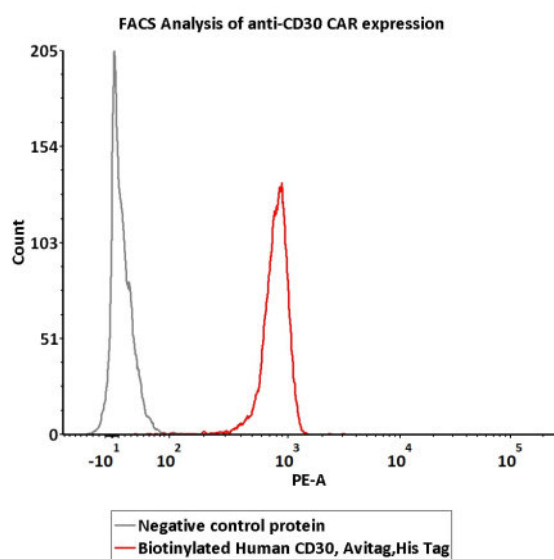
Immobilized Anti-CD30 MAb, Human IgG1 at 5 µg/mL (100 µL/well) can bind Biotinylated Human CD30, Avitag,His Tag (Cat. No. CD0-H82E6) with a linear range of 0.4-6.5 ng/mL (Routinely tested).

**Bioactivity-BLI**



Loaded Biotinylated Human CD30, Avitag,His Tag (Cat. No. CD0-H82E6) on SA Biosensor, can bind Human CD30 Ligand, His Tag, low endotoxin (Cat. No. CDL-H524b) with an affinity constant of 139 nM as determined in BLI assay (ForteBio Octet Red96e) (Routinely tested).

**Bioactivity-FACS**



2e5 of anti-CD30 CAR-293 cells were stained with 100 µL of 0.1 µg/mL of Biotinylated Human CD30, Avitag,His Tag (Cat. No. CD0-H82E6) and

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negative control protein respectively, washed and then followed by PE-SA and analyzed with FACS (Routinely 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**

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