



### Synonym

TNFRSF8,CD30,D1S166E,Ki-1

### Source

Human CD30, Fc Tag(CD0-H5250) 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	Fc(Pro 100 - Lys 330) P01857
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This protein carries a human IgG1 Fc tag at the C-terminus.

The protein has a calculated MW of 64.6 kDa. The protein migrates as 80-130 kDa when calibrated against [Star Ribbon Pre-stained Protein Marker](#) under reducing (R) condition (SDS-PAGE) due to glycosylation.

### Endotoxin

Less than 0.2 EU per µg by the LAL method.

### Purity

>95% as determined by SDS-PAGE.

>90% as determined by SEC-MALS.

### Formulation

Lyophilized from 0.22 µm filtered solution in 50 mM Tris, 100 mM Glycine, pH7.5 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

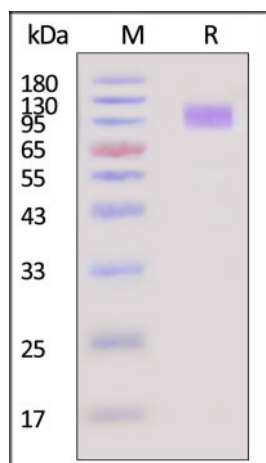
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

*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.

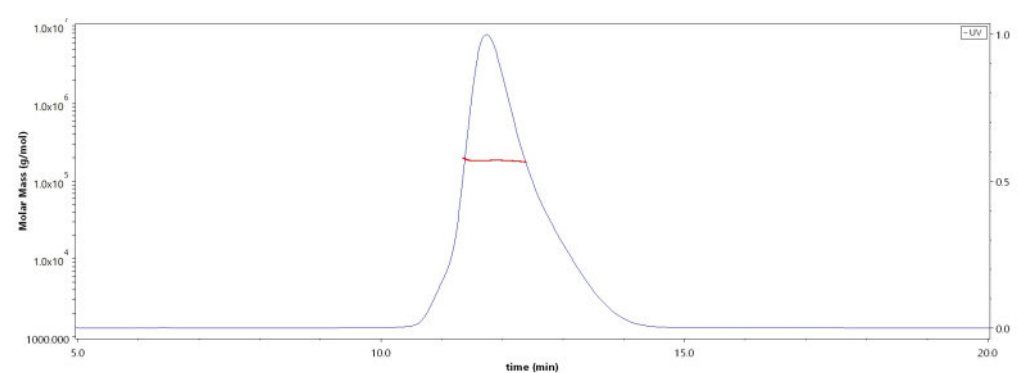
### SDS-PAGE



Human CD30, Fc 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

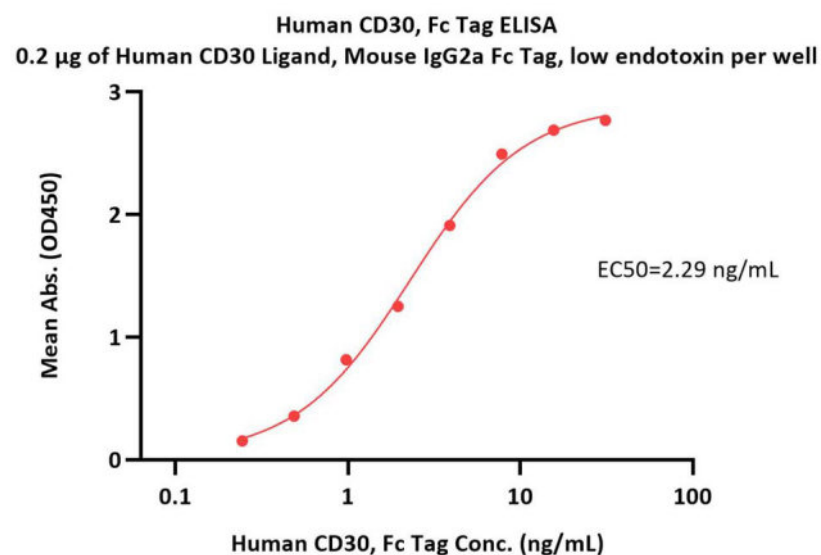


The purity of Human CD30, Fc Tag (Cat. No. CD0-H5250) is more than 90% and the molecular weight of this protein is around 185-215 kDa verified by SEC-MALS.

[Report](#)

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Immobilized Human CD30 Ligand, Mouse IgG2a Fc Tag, low endotoxin (Cat. No. CDL-H525b) at 2 µg/mL (100 µL/well) can bind Human CD30, Fc Tag (Cat. No. CD0-H5250) with a linear range of 0.2-4 ng/mL (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

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