

Synonym

CD30-L,CD153,TNFSF8,CD30L,CD30LG,CD153 antigen,CD30 antigen ligand,CD30 Ligand

Source

Human CD30 Ligand Protein, His Tag(CDL-H524b) is expressed from human 293 cells (HEK293). It contains AA Gln 63 - Asp 234 (Accession # [P32971-1](#)). Predicted N-terminus: His

Molecular Characterization

Poly-his CD30 Ligand(Gln 63 - Asp 234)
P32971-1

This protein carries a polyhistidine tag at the N-terminus

The protein has a calculated MW of 21.5 kDa. The protein migrates as 30-40 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.

Endotoxin

Less than 0.01 EU per µg by the LAL method.

Purity

>90% 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.

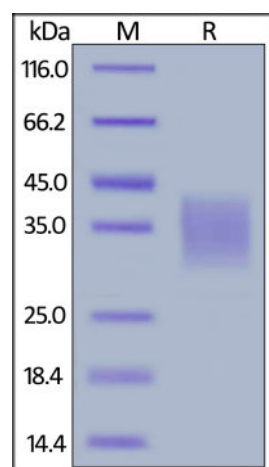
Storage

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

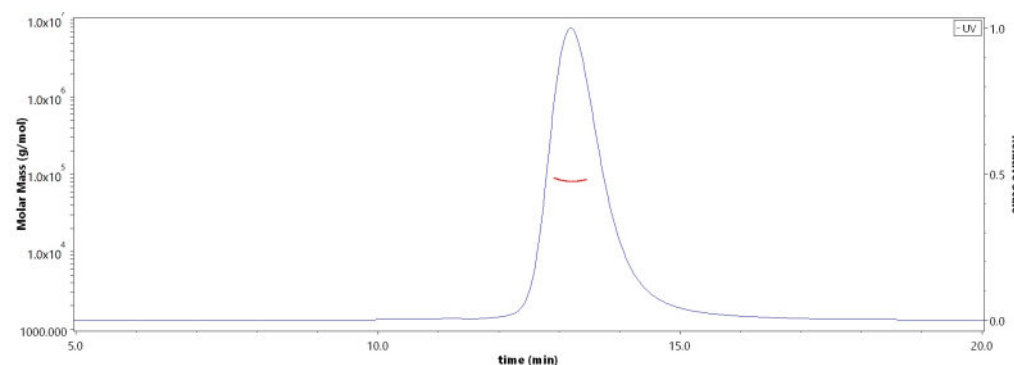
Please avoid repeated freeze-thaw cycles.

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.

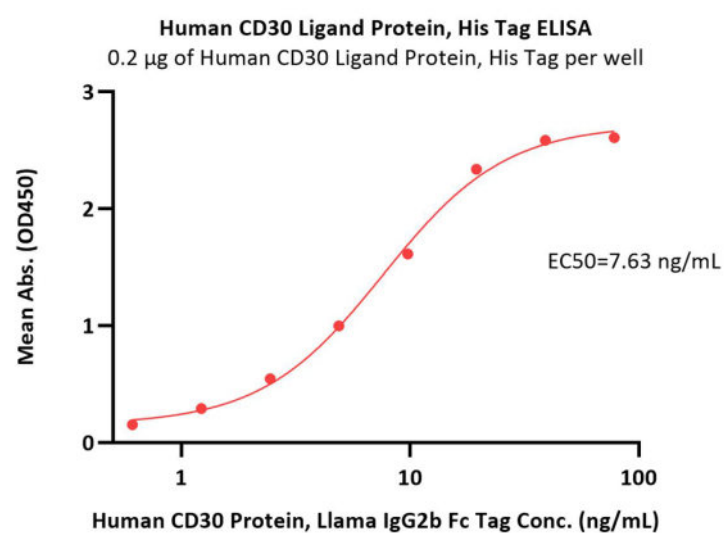
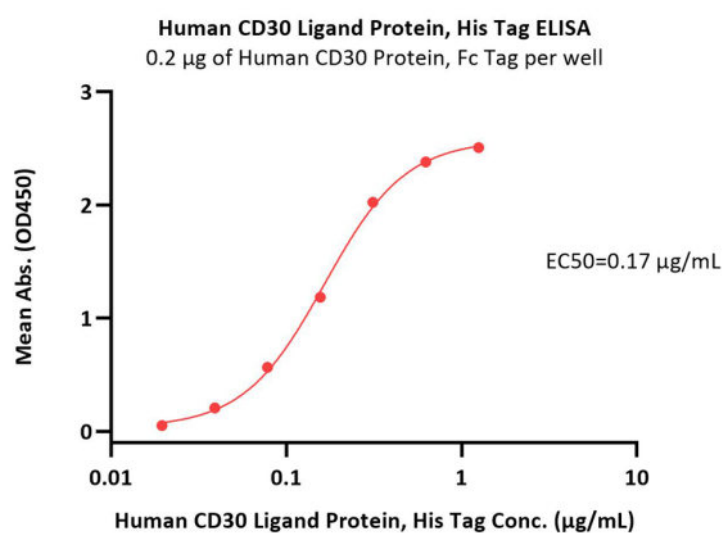
SDS-PAGE

Human CD30 Ligand 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%.

Bioactivity-ELISA**SEC-MALS**

The purity of Human CD30 Ligand Protein, His Tag (Cat. No. CDL-H524b) is more than 95% and the molecular weight of this protein is around 60-83 kDa verified by SEC-MALS.

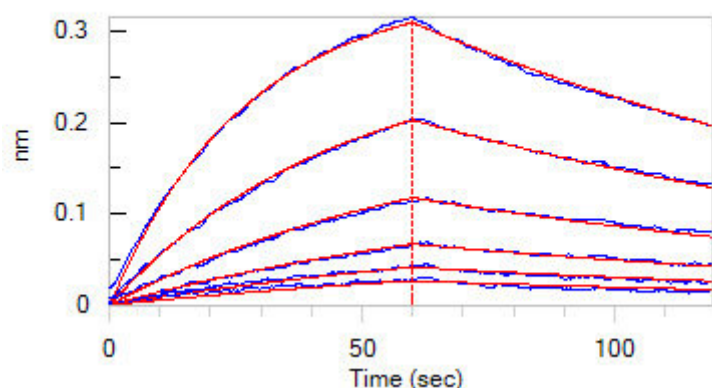
[Report](#)



Immobilized Human CD30 Protein, Fc Tag (Cat. No. CD0-H5250) at 2 µg/mL (100 µL/well) can bind Human CD30 Ligand Protein, His Tag (Cat. No. CDL-H524b) with a linear range of 0.039-0.313 µg/mL (QC tested).

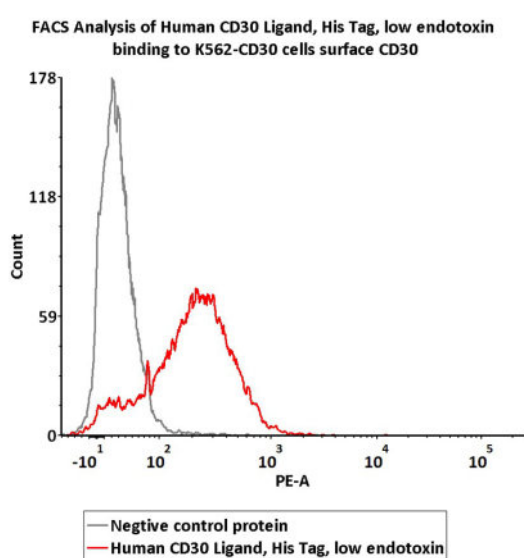
Immobilized Human CD30 Ligand Protein, His Tag (Cat. No. CDL-H524b) at 2 µg/mL (100 µL/well) can bind Human CD30 Protein, Llama IgG2b Fc Tag (Cat. No. TN8-H5250) with a linear range of 0.6-10 ng/mL (Routinely tested).

Bioactivity-BLI



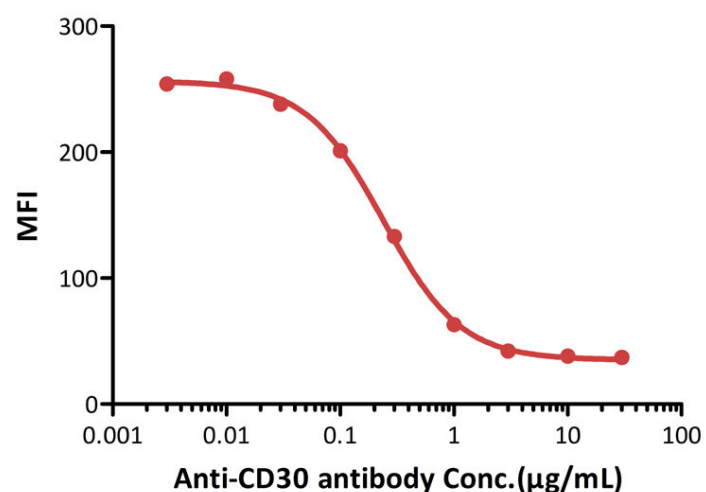
Loaded Biotinylated Human CD30, Avitag,His Tag (Cat. No. CD0-H82E6) on SA Biosensor, can bind Human CD30 Ligand Protein, His Tag (Cat. No. CDL-H524b) with an affinity constant of 132 nM as determined in BLI assay (ForteBio Octet Red96e) (Routinely tested).

Bioactivity-FACS



FACS analysis shows that Human CD30 Ligand Protein, His Tag (Cat. No. CDL-H524b) can bind to K562-CD30 cells surface CD30. The concentration of Human CD30 Ligand is 3 µg/mL (Routinely tested).

Competitive experiment of neutralizing anti-CD30 antibody



FACS analysis shows that the binding of Human CD30 Ligand Protein, His Tag (Cat. No. CDL-H524b) to K562-CD30 cells surface CD30 was inhibited by increasing concentration of neutralizing anti-CD30 antibody. The

concentration of Human CD30 Ligand used is 3 µg/mL. The IC50 is 0.2401 µg/mL (Routinely tested).

Background

CD30 ligand (CD30L) and CD30 are interacting cell surface glycoproteins that are members of the tumour necrosis factor (TNF) and tumour necrosis factor receptor (TNFR) superfamilies. In humans, CD30L is expressed at high levels on activated T cells. There is conflicting evidence with regard to cell surface expression of CD30L on primary human B cells. An initial report of constitutive CD30L expression on peripheral blood B cells³³ has not been substantiated.

Clinical and Translational Updates

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