Human CD30 / TNFRSF8 Protein, Llama IgG2b Fc Tag, low endotoxin

Catalog # TN8-H5250

Synonym

TNFRSF8,CD30,D1S166E,Ki-1

Source

Human CD30 Protein, Llama IgG2b Fc Tag(TN8-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	LlamaFc(Glu1 - Ser243) AAX73259.1

This protein carries a llama IgG2b Fc tag at the C-terminus.

The protein has a calculated MW of 66.3 kDa. The protein migrates as 95-120 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.

Endotoxin

Less than 0.01 EU per μg by the LAL method / rFC method.

Purity

>95% as determined by SDS-PAGE.

Formulation

Lyophilized from 0.22 μm filtered solution in
Tris with Glycine, Arginine and NaCl, 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

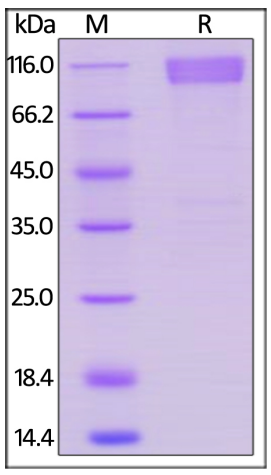
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

Please avoid repeated freeze-thaw cycles.

This product is stable after storage at:

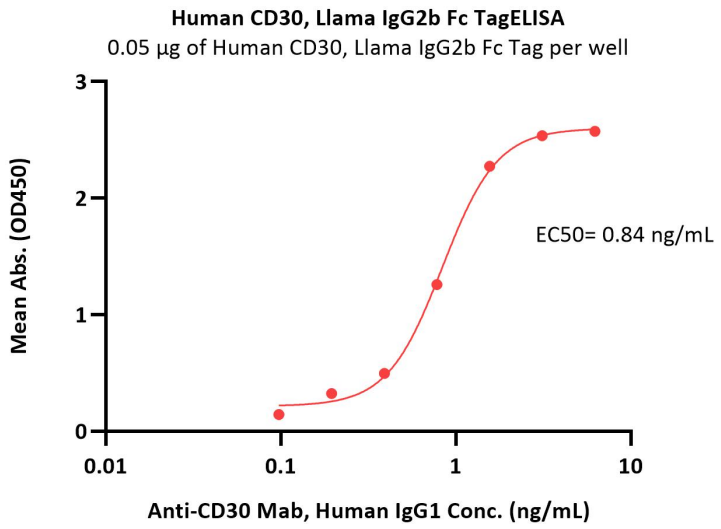
- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

SDS-PAGE



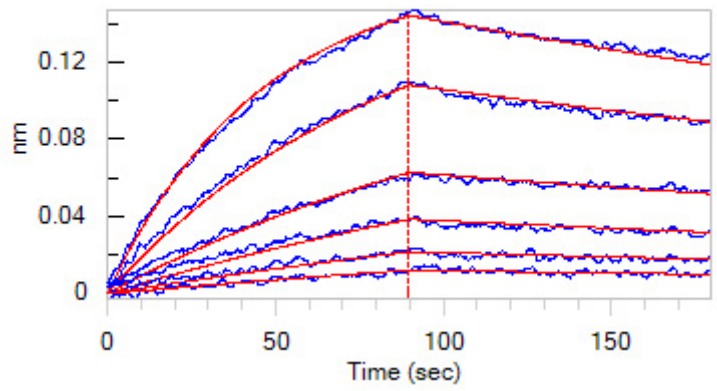
Human CD30 Protein, Llama IgG2b Fc Tag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 95%.

Bioactivity-ELISA



Immobilized Human CD30 Protein, Llama IgG2b Fc Tag (Cat. No. TN8-H5250) at 0.5 μg/mL (100 μL/well) can bind Anti-CD30 Mab, Human IgG1 with a linear range of 0.1-1.6 ng/mL (QC tested).

Bioactivity-BLI



Loaded Human CD30 Ligand, His Tag (Cat. No. CDL-H524b) on HIS1K Biosensor, can bind Human CD30 Protein, Llama IgG2b Fc Tag (Cat. No. TN8-H5250) with an affinity constant of 55.5 nM as determined in BLI assay (ForteBio Octet Red96e) (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.