Recombinant Human TNFSF8 protein, His-tagged, low endotoxin

Cat. No. TNFSF8-829H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human TNFSF8 (Gln63-Asp234) protein (low endotoxin) was fused to His-tag at N-terminus and expressed in human 293 cells (HEK293).
Species	Human
Source	HEK293
ProteinLength	Gln63-Asp234
Description	CD30 ligand (CD30L) and CD30 are interacting cellsurface 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.
Predicted N Terminal	Gln63
Form	Lyophilized from 0.22 μm filtered solution in PBS, pH7.4, 10% trehalose.
Molecular Mass	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.

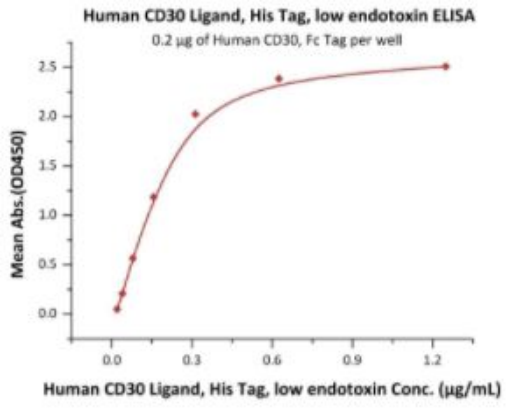
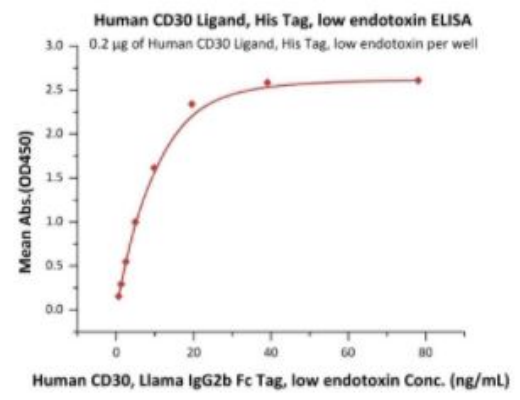
Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

Purity	>90% as determined by SDS-PAGE.
Storage	For long term storage, the product should be stored at lyophilized state at -20 centigrade or lower. Please avoid repeated freeze-thaw cycles. This product is stable after storage at: -20 to -70 centigrade for 12 months in lyophilized state; -70 centigrade for 3 months under sterile conditions after reconstitution.
Reconstitution	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 ug/ul. Centrifuge the vial at 4℃ before opening to recover the entire contents.

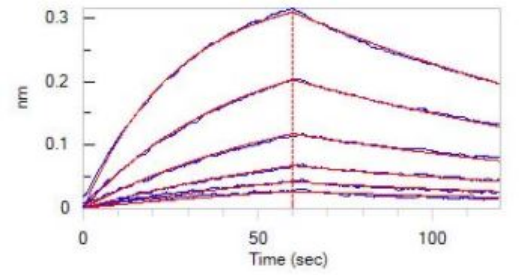
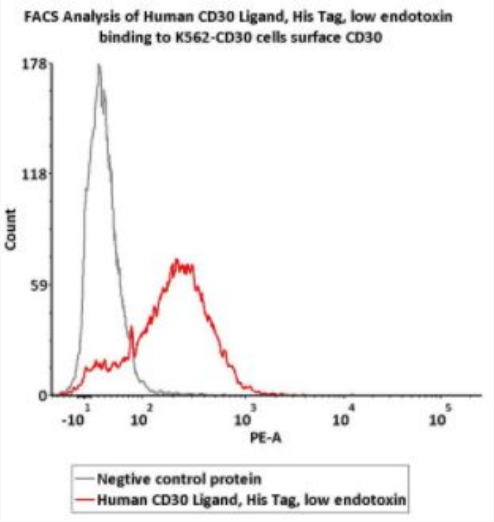
GENE INFORMATION

Gene Name	TNFSF8
Official Symbol	TNFSF8
Synonyms	CD153, CD30L, CD30LG, TNLG3A
Gene ID	944
mRNA Refseq	NM_001244.3
Protein Refseq	NP_001235.1
MIM	603875
UniProt ID	P32971

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

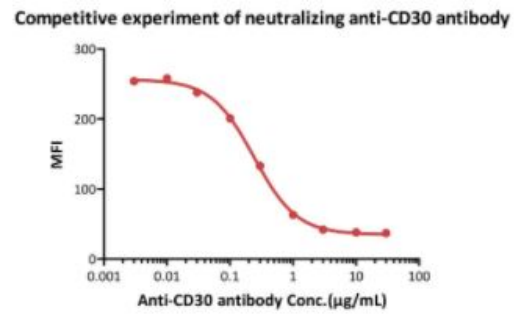
Bioactivity-ELISA of TNFSF8-829H	 Immobilized Human CD30, Fc Tag at 2 μg/mL (100 μL/well) can bind Human CD30 Ligand, His Tag, low endotoxin with a linear range of 0.039-0.313 μg/mL (QC tested).
Bioactivity-ELISA	 Immobilized Human CD30 Ligand, His Tag, low endotoxin at 2 μg/mL (100 μL/well) can bind Human CD30, Llama IgG2b Fc Tag, low endotoxin with a linear range of 0.6-10 ng/mL (Routinely tested).

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

Bioactivity-BLI of TNFSF8-829H	 Loaded Biotinylated Human CD30, Avitag,His Tag on SA Biosensor, can bind Human CD30 Ligand, His Tag, low endotoxin with an affinity constant of 132 nM as determined in BLI assay (ForteBio Octet Red96e) (Routinely tested).
Bioactivity-FACS of TNFSF8-829H	 FACS analysis shows that Human CD30 Ligand, His Tag, low endotoxin can bind to K562-CD30 cells surface CD30. The concentration of Human CD30 Ligand is 3 μg/mL (Routinely tested).

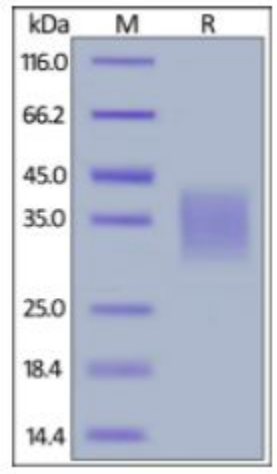
Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

Bioactivity-FACS of TNFSF8-829H



FACS analysis shows that the binding of Human CD30 Ligand, His Tag, low endotoxin 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).

SDS-PAGE of TNFSF8-829H



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

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA