

# Recombinant Human TNFSF8 protein, Mouse IgG2a Fc-tagged, low endotoxin

**Cat. No.** TNFSF8-333H    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant Human TNFSF8 protein (Gln63-Asp234)(low endotoxin), fused to Mouse IgG2a Fc tag at N-terminus, was expressed in human 293 cells (HEK293).                                                                                                                                                                                                                                                                                                                                      |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Source</b>           | HEK293                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>ProteinLength</b>    | 172                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Description</b>      | 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 cells <sup>33</sup> has not been substantiated. |
| <b>Form</b>             | Lyophilized from 0.22 um filtered solution in Tris with Glycine, Arginine and NaCl, pH7.5, 10% trehalose.                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Molecular Mass</b>   | The protein has a calculated MW of 46.5 kDa. The protein migrates as 55-66 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.                                                                                                                                                                                                                                                                                                                                               |
| <b>Endotoxin</b>        | Less than 0.1 EU per ug by the LAL method.                                                                                                                                                                                                                                                                                                                                                                                                                                                 |

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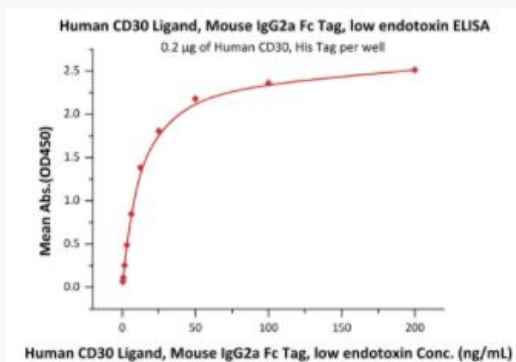
|                         |                                                                                                                                                                                                                                                                                                                                                                            |
|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Purity</b>           | >95% as determined by SDS-PAGE.                                                                                                                                                                                                                                                                                                                                            |
| <b>Storage</b>          | <p>For long term storage, the product should be stored at lyophilized state at -20 centigrade or lower.</p> <p>Please avoid repeated freeze-thaw cycles.</p> <p>This product is stable after storage at:</p> <p>-20 centigrade to -70 centigrade for 12 months in lyophilized state;</p> <p>-70 centigrade for 3 months under sterile conditions after reconstitution.</p> |
| <b>Reconstitution</b>   | 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°C before opening to recover the entire contents.                                                                                                                                                                                              |
| <b>GENE INFORMATION</b> |                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Gene Name</b>        | TNFSF8                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Official Symbol</b>  | TNFSF8                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Synonyms</b>         | TNFSF8; tumor necrosis factor (ligand) superfamily, member 8; CD30LG; tumor necrosis factor ligand superfamily member 8; CD153; CD30-L; CD30 ligand; CD153 antigen; CD30 antigen ligand; CD30L; MGC138144                                                                                                                                                                  |
| <b>Gene ID</b>          | 944                                                                                                                                                                                                                                                                                                                                                                        |
| <b>mRNA Refseq</b>      | NM_001244                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Protein Refseq</b>   | NP_001235                                                                                                                                                                                                                                                                                                                                                                  |
| <b>MIM</b>              | 603875                                                                                                                                                                                                                                                                                                                                                                     |
| <b>UniProt ID</b>       | P32971                                                                                                                                                                                                                                                                                                                                                                     |

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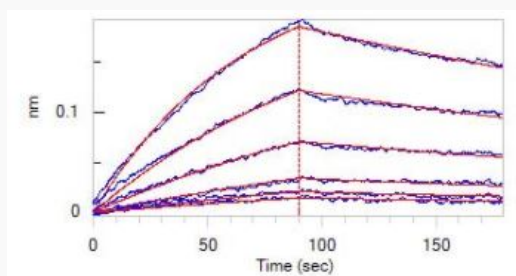
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### Bioactivity-ELISA of TNFSF8-333H



Immobilized Human CD30, His Tag at 2 µg/mL (100 µL/well) can bind Human CD30 Ligand, Mouse IgG2a Fc Tag, low endotoxin with a linear range of 1-25 ng/mL (QC tested).

### Bioactivity-BLI of TNFSF8-333H



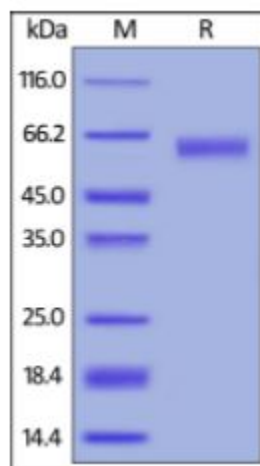
Loaded Biotinylated Human CD30, Avitag, His Tag on SA Biosensor, can bind Human CD30 Ligand, Mouse IgG2a Fc Tag, low endotoxin with an affinity constant of 114 nM as determined in BLI assay (Routinely tested).

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**SDS-PAGE of  
TNFSF8-333H**



Human CD30 Ligand, Mouse IgG2a Fc 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 95%.

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