

# Mouse TNFSF8(CD30L) Protein; hFc Tag

## Product Information

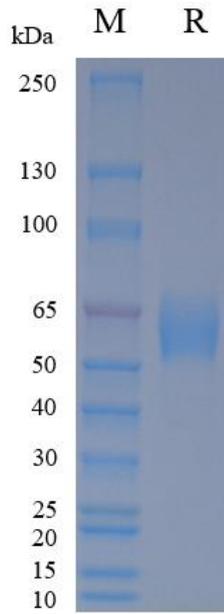
<b>Product Name</b>	Mouse TNFSF8(CD30L) Protein; hFc Tag
<b>Storage temp</b>	Store at $\leq -70^{\circ}\text{C}$ , stable for 6 months after receipt. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.
<b>Catalog# / Size</b>	<b>GM-88437RP-100 / 100 <math>\mu\text{g}</math></b> <b>GM-88437RP-1000 / 1 mg</b>

## Protein Information

<b>Alternative Names</b>	TNFSF8, CD30L, CD30LG, CD153, CD30 Ligand
<b>Source</b>	Mouse TNFSF8(CD30L) Protein; hFc Tag (GM-88437RP) is expressed from human 293 cells (HEK-293). It contains AA Gln 68 - Asp 239 (Accession # P32972). This protein carries a human IgG1 Fc tag at the N-terminus.
<b>Purity</b>	> 90% as determined by SDS-PAGE
<b>Endotoxin</b>	< 1 EU/ $\mu\text{g}$ , determined by LAL gel clotting assay
<b>Predicted Mol Mass</b>	46.2 KDa
<b>Formulation</b>	Supplied as a 0.2 $\mu\text{m}$ filtered solution of PBS, pH7.2-7.4.
<b>Description</b>	CD30L (CD153) is the ligand for CD30 and belongs to the TNF/TNFR superfamily. It is mainly expressed on activated T cells, B cells, and some dendritic cells. The CD30-CD30L axis modulates T cell activation, differentiation, and cytokine production, with context-dependent effects on immune responses and inflammation. CD30L can trigger reverse signaling in CD30L-expressing cells and forward signaling in CD30-expressing cells, facilitating communication in the immune microenvironment. CD30L binding to CD30 activates NF- $\kappa\text{B}$ and MAPK pathways, regulating inflammatory and survival gene transcription. It influences Th cell polarization (notably Th2, possibly Th17) and provides costimulatory signals that boost immune activation. Dysregulation of CD30/CD30L is linked to some inflammatory conditions and lymphoid malignancies, making the axis a potential target for immunomodulatory therapies and diagnostic markers.

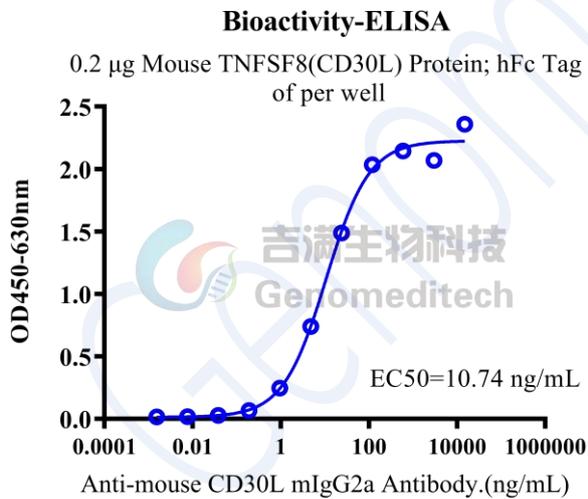
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## SDS-PAGE

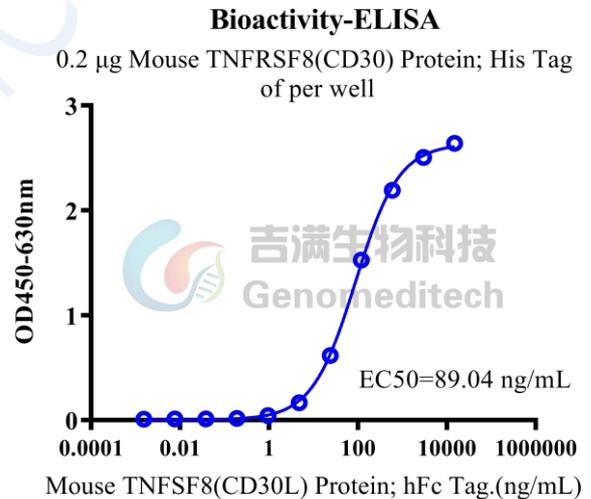


On SDS-PAGE under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 90%.

## Bioactivity-ELISA



Mouse TNFSF8(CD30L) Protein; hFc Tag (Catalog # GM-88437RP) was immobilized at 2 µg/ml (100 µL/well). Increasing concentrations of Anti-mouse CD30L mIgG2a Antibody (Catalog # GM-88402MAB) were added.



Mouse TNFRSF8(CD30) Protein; His Tag (Catalog # GM-88430RP) was immobilized at 2 µg/ml (100 µL/well). Increasing concentrations of Mouse TNFSF8(CD30L) Protein; hFc Tag (Catalog # GM-88437RP) were added.