

# Human TNFRSF8(CD30) Protein; hFc Tag

## Product Information

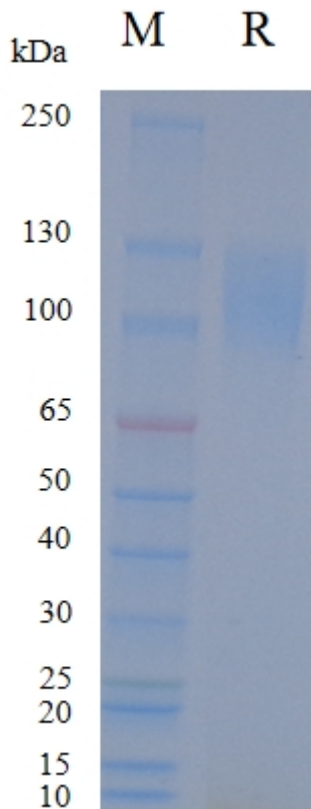
<b>Product Name</b>	Human TNFRSF8(CD30) Protein; hFc Tag
<b>Storage temp</b>	Store at $\leq -70^{\circ}\text{C}$ , stable for 6 months after receipt. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.
<b>Catalog# / Size</b>	<b>GM-88427RP-100 / 100 <math>\mu\text{g}</math></b> <b>GM-88427RP-1000 / 1 mg</b>

## Protein Information

<b>Alternative Names</b>	TNFRSF8, CD30, D1S166E, Ki-1
<b>Source</b>	Human TNFRSF8(CD30) Protein; hFc Tag (GM-88427RP) is expressed from human 293 cells (HEK-293). It contains AA Phe 19 - Lys 379 (Accession # P28908-1). This protein carries a hFc tag at the C-terminus.
<b>Purity</b>	> 95% as determined by SDS-PAGE
<b>Endotoxin</b>	< 1 EU/ $\mu\text{g}$ , determined by LAL gel clotting assay
<b>Predicted Mol Mass</b>	64.4 KDa
<b>Formulation</b>	Supplied as a 0.2 $\mu\text{m}$ filtered solution of PBS, pH7.2-7.4.
<b>Description</b>	TNFRSF8, also known as CD30, is a type I transmembrane receptor in the tumor necrosis factor receptor (TNFR) superfamily. It is variably expressed on activated T cells, certain B cells, and a subset of malignancies such as Hodgkin lymphoma and anaplastic large cell lymphoma. CD30 functions as a co-stimulatory receptor involved in cell proliferation, survival, and differentiation signals. It is also used as a diagnostic and therapeutic target in CD30-positive diseases. Other aliases include D1S166E and Ki-1. CD30 signaling is initiated upon trimerization or clustering of the receptor, leading to recruitment of adaptor proteins and activation of downstream pathways such as NF- $\kappa\text{B}$ , MAPK (ERK, JNK), and PI3K-Akt. This signaling promotes cell survival, proliferation, and cytokine production, particularly in activated T cells and certain neoplastic cells. Dysregulated CD30 signaling can contribute to pathologic immune responses and tumorigenesis, making CD30 a valuable target for monoclonal antibodies and targeted therapies.

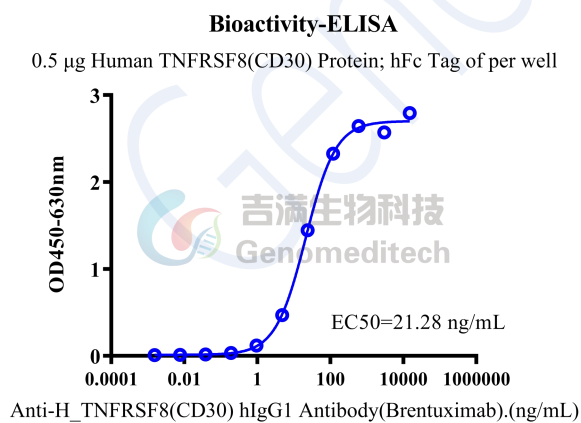
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## SDS-PAGE

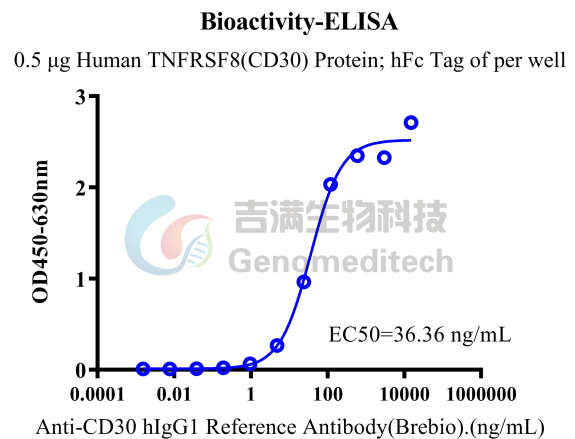


On SDS-PAGE under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 95%.

## Bioactivity-ELISA



Human TNFRSF8(CD30) Protein; hFc Tag (Catalog # GM-88427RP) was immobilized at 5  $\mu\text{g}/\text{ml}$  (100  $\mu\text{L}/\text{well}$ ). Increasing concentrations of Anti-H\_TNFRSF8(CD30) hIgG1 Antibody (Brentuximab) (Catalog # GM-28856AB) were added.



Human TNFRSF8(CD30) Protein; hFc Tag (Catalog # GM-88427RP) was immobilized at 5  $\mu\text{g}/\text{ml}$  (100  $\mu\text{L}/\text{well}$ ). Increasing concentrations of Anti-CD30 hIgG1 Reference Antibody (Brebio) (Catalog # GM-87698MAB) were added.

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