

Active Recombinant Human TNFRSF8, Fc-tagged

Cat. No. TNFRSF8-1594H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human CD30 (amino acid residues 1-379) encoding the extracellular domain was fused to the carboxy-terminal polyhistidine tagged Fc region of human IgG1 via a polypeptide linker. The chimeric protein was expressed in NSO cells.
Species	Human
Source	Mammalian Cells
ProteinLength	1-379 a.a.
Description	CD30/TNFRSF8, a type I transmembrane glycoprotein belonging to the TNF receptor superfamily and tumor marker. This receptor is expressed by activated, but not by resting, T and B cells. TRAF2 and TRAF5 can interact with this receptor, and mediate the signal transduction that leads to the activation of NF-kappaB. It 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. Two alternatively spliced transcript variants of this gene encoding distinct isoforms have been reported. CD30 is associated with anaplastic large cell lymphoma. It is expressed in embryonal carcinoma but not in seminoma and is thus is a useful marker in distinguishing between these germ cell tumors.
Molecular Weight	The predicted molecular weight of Recombinant Human CD30 is Mr 66 kDa. However, the actual molecular weight as observed by migration on SDS Page is Mr 100-125 kDa.

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State Of Matter	Lyophilized.
Purity	>95% by SDS Page and analyzed by silver stain.
Formulation	This recombinant protein was 0.2 µm filtered and lyophilized from modified Dulbecco's phosphate buffered saline (1X PBS) pH 7.2 – 7.3 with no calcium, magnesium, or preservatives.
Endotoxin	<1.0 EU/g as determined by the LAL method.
Biological Activity	The biological activity of Human CD30 was determined by its ability to bind rhCD30 Ligand. Immobilized rhCD30 Ligand at 100 ng/ml (100 µl/well) can bind rhCD30/Fc with a linear range of 3.125-200 ng/ml in a functional ELISA.
Storage And Stability	This lyophilized protein is stable for six to twelve months when stored desiccated at -20°C to -70°C. After aseptic reconstitution, this protein may be stored at 2°C to 8°C for one month or at -20°C to -70°C in a manual defrost freezer. Avoid Repeated Freeze Thaw Cycles. See Product Insert for exact lot specific storage instructions.

GENE INFORMATION

Gene Name	TNFRSF8 tumor necrosis factor receptor superfamily, member 8 [Homo sapiens]
Synonyms	TNFRSF8; tumor necrosis factor receptor superfamily, member 8; CD30; Ki-1; D1S166E; Tumor necrosis factor receptor superfamily member 8; CD30L receptor; Lymphocyte activation antigen CD30; Ki-1 antigen; OTTHUMP00000001783; CD30 antigen
Gene ID	943
mRNA Refseq	NM_001243

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Protein Refseq	NP_001234
MIM	153243
UniProt ID	P28908
Chromosome Location	1p36
Pathway	Cytokine-cytokine receptor interaction
Function	protein binding; transmembrane receptor activity

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