

Active Recombinant Human TNFRSF8 Protein, Fc-tagged, Alexa Fluor 647 conjugated

Cat. No. TNFRSF8-1594HAF647 Lot. No. (See product label)

SPECIFICATION

Product Overview Alexa Fluor 647 conjugated 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.

Form Lyophilized

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Bio-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.
Molecular Mass	100-125 kDa
Endotoxin	< 1.0 EU/ µg as determined by the LAL method
Purity	> 95 % by SDS-PAGE and analyzed by silver stain.
Characteristic	Disulfide-linked homodimer Labeled with Alexa Fluor 647 via amines Excitation = 650 nm Emission = 668 nm
Stability	This lyophilized protein is stable for 6 to 12 months when stored desiccated at -20 to -70 centigrade. After aseptic reconstitution, this protein may be stored at 2 to 8 centigrade for one month or at -20 to -70 centigrade in a manual defrost freezer. Avoid Repeated Freeze Thaw Cycles.
Storage	This lyophilized protein is stable for six to twelve months when stored desiccated at -20 to -70 centigrade. After aseptic reconstitution, this protein may be stored at 2 to 8 centigrade for one month or at -20 to -70 centigrade in a manual defrost freezer. Avoid Repeated Freeze Thaw Cycles.
Storage Buffer	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.
Conjugation	Alexa Fluor 647

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GENE INFORMATION

Gene Name	TNFRSF8 tumor necrosis factor receptor superfamily, member 8 [Homo sapiens]
Official Symbol	TNFRSF8
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
Protein Refseq	NP_001234
MIM	153243
UniProt ID	P28908

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