

## Active Recombinant Human TNFRSF8, Fc-tagged

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

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
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| <b>Product Overview</b> | 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.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Source</b>           | Mammalian Cells                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>ProteinLength</b>    | 1-379 a.a.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Description</b>      | 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. |
| <b>Molecular Weight</b> | 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.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |

 Tel: 1-631-559-9269    1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)     Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

|                              |                                                                                                                                                                                                                                                                                                                                                 |
|------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>State Of Matter</b>       | Lyophilized.                                                                                                                                                                                                                                                                                                                                    |
| <b>Purity</b>                | >95% by SDS Page and analyzed by silver stain.                                                                                                                                                                                                                                                                                                  |
| <b>Formulation</b>           | 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.                                                                                                                                                             |
| <b>Endotoxin</b>             | <1.0 EU/g as determined by the LAL method.                                                                                                                                                                                                                                                                                                      |
| <b>Biological Activity</b>   | 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.                                                                                                                |
| <b>Storage And Stability</b> | 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

|                    |                                                                                                                                                                                                                                             |
|--------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>   | TNFRSF8 tumor necrosis factor receptor superfamily, member 8 [ Homo sapiens ]                                                                                                                                                               |
| <b>Synonyms</b>    | 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 |
| <b>Gene ID</b>     | 943                                                                                                                                                                                                                                         |
| <b>mRNA Refseq</b> | NM_001243                                                                                                                                                                                                                                   |

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

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