

## Recombinant Human TNFRSF8 Protein (Met1-Lys379), His-tagged, Biotinylated

Cat. No. TNFRSF8-434H    Lot. No. (See product label)

### SPECIFICATION

#### Product Overview

Recombinant Human TNFRSF8 Protein (NP\_001234.2) (Met1-Lys379) was produced by HEK293 Cells expression system. This protein was expressed with a C-terminal polyhistidine tag. The purified protein was biotinylated in vitro.

#### Species

Human

#### Source

HEK293

#### ProteinLength

Met1-Lys379

#### Description

CD3, also known as TNFRSF8, is a cell membrane protein of the tumor necrosis factor receptor (TNFR) superfamily. CD3 protein is expressed by activated, but not resting, T and B cells. CD3 can regulate proliferation of lymphocytes and may also play an important role in human immunodeficiency virus replication. As a regulator of apoptosis, CD3 protein induces cell death or proliferation, depending on the cell type, and has been shown to limit the proliferative potential of autoreactive CD8 effector T cells and protect the body against autoimmunity. CD3 protein expression is upregulated in various hematological malignancies, including Reed-Sternberg cells in Hodgkin's disease (HD), anaplastic large cell lymphoma (ALCL) and subsets of Non-Hodgkin's lymphomas (NHLs), and CD3 is also linked to leukocytes in patients with chronic inflammatory diseases, including lupus erythematosus, asthma, rheumatoid arthritis and atopic dermatitis (AD).

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|                             |                                                                                                                                                                                                                                                              |
|-----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Predicted N Terminal</b> | Phe 19                                                                                                                                                                                                                                                       |
| <b>Form</b>                 | Lyophilized from sterile Sterile PBS. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.                                                                                                               |
| <b>Molecular Mass</b>       | The recombinant TNFRSF8 consists of 372 amino acids and predicts a molecular mass of 39.9 kDa.                                                                                                                                                               |
| <b>Endotoxin</b>            | < 1.0 EU per µg protein as determined by the LAL method.                                                                                                                                                                                                     |
| <b>Purity</b>               | > 90 % as determined by SDS-PAGE.                                                                                                                                                                                                                            |
| <b>Stability</b>            | Samples are stable for up to twelve months from date of receipt at -70 centigrade.                                                                                                                                                                           |
| <b>Storage</b>              | Store it under sterile conditions at -20 centigrade to -80 centigrade. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.                                                                               |
| <b>Reconstitution</b>       | It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 mg/ml. Centrifuge the vial at 4°C before opening to recover the entire contents.                                                                                |
| <b>Shipping</b>             | In general, recombinant proteins are provided as lyophilized powder which are shipped at ambient temperature.<br>Bulk packages of recombinant proteins are provided as frozen liquid. They are shipped out with blue ice unless customers require otherwise. |
| <b>Conjugation</b>          | Biotin                                                                                                                                                                                                                                                       |

## GENE INFORMATION

**Gene Name** TNFRSF8 tumor necrosis factor receptor superfamily, member 8 [ Homo sapiens ]

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|                        |                                                                                                             |
|------------------------|-------------------------------------------------------------------------------------------------------------|
| <b>Official Symbol</b> | TNFRSF8                                                                                                     |
| <b>Synonyms</b>        | TNFRSF8; CD30, D1S166E; KI 1; Ki-1 antigen; CD30L receptor; cytokine receptor<br>CD30; CD30; Ki-1; D1S166E; |
| <b>Gene ID</b>         | 943                                                                                                         |
| <b>mRNA Refseq</b>     | NM_001243                                                                                                   |
| <b>Protein Refseq</b>  | NP_001234                                                                                                   |
| <b>MIM</b>             | 153243                                                                                                      |
| <b>UniProt ID</b>      | P28908                                                                                                      |

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