

## Recombinant Human TNFSF9 Protein, His-tagged

Cat. No. TNFSF9-151H Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant Human tumor necrosis factor superfamily member 9(TNFSF9)(NM_003811) protein, with a His tag, was expressed in human cells.
<b>Species</b>	Human
<b>Source</b>	Human Cells
<b>Description</b>	The protein encoded by this gene is a cytokine that belongs to the tumor necrosis factor (TNF) ligand family. This transmembrane cytokine is a bidirectional signal transducer that acts as a ligand for TNFRSF9/4-1BB, which is a costimulatory receptor molecule in T lymphocytes. This cytokine and its receptor are involved in the antigen presentation process and in the generation of cytotoxic T cells. The receptor TNFRSF9/4-1BB is absent from resting T lymphocytes but rapidly expressed upon antigenic stimulation. The ligand encoded by this gene, TNFSF9/4-1BBL, has been shown to reactivate anergic T lymphocytes in addition to promoting T lymphocyte proliferation. This cytokine has also been shown to be required for the optimal CD8 responses in CD8 T cells. This cytokine is expressed in carcinoma cell lines, and is thought to be involved in T cell-tumor cell interaction.
<b>Form</b>	Purified protein formulated in a sterile solution of TBS buffer, pH7.281, without any preservatives.
<b>Molecular Mass</b>	26.4 kDa
<b>Endotoxin</b>	Endotoxin level is < 0.1 ng/g of protein (<1EU /g)

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**Purity** >90% by SDS-PAGE gel and Coomassie Blue staining

**Applications** Antigens, Western, ELISA and other in vitro binding or in vivo functional assays, and protein-protein interaction studies.

## GENE INFORMATION

**Gene Name** TNFSF9 tumor necrosis factor (ligand) superfamily, member 9 [ Homo sapiens ]

**Official Symbol** TNFSF9

**Synonyms** TNFSF9; tumor necrosis factor (ligand) superfamily, member 9; tumor necrosis factor ligand superfamily member 9; 4 1BB L; homolog of mouse 4 1BB L; receptor 4 1BB ligand; 4-1BBL; 4-1BB ligand; receptor 4-1BB ligand; homolog of mouse 4-1BB-L; CD137L; 4-1BB-L;

**Gene ID** 8744

**mRNA Refseq** NM\_003811

**Protein Refseq** NP\_003802

**MIM** 606182

**UniProt ID** P41273

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