

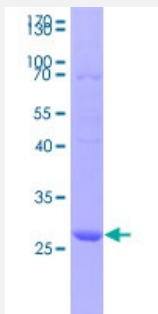
HuPro®

# TNFSF9 (Human) Recombinant Protein

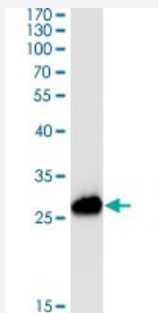
Catalog # H00008744-H03

Size 25 ug

## Applications



SDS-PAGE Gel



Western Blot

## Specification

### Product Description

Purified TNFSF9 (AAI04806.1 50 a.a. - 254 a.a.) human recombinant protein with His-Flag-StreptII tag at N-terminus expressed in human cells.

### Transfected Cell Line

Human HEK293H cells

### Sequence

ACPWAVSGARASPGSAASPRRLREGPELSPDDPAGLLDLRQGMFAQLVAQNVLLIDGPLSWYSD  
PGLAGVSLTGGLSYKEDTKELVAKAGVYVFFQLELRRVVAGEGSGSVSLALHLQPLRSAAGA  
AALALTVDLPPASSEARNSAFGFQGRLLHLSAGQRLGVHLHTEARARHAWQLTQGATVLGLFRV  
TPEIPAGLPSRSE

### Host

Human

### Theoretical MW (kDa)

27.83

|                         |                                                                                                                                          |
|-------------------------|------------------------------------------------------------------------------------------------------------------------------------------|
| Form                    | Liquid                                                                                                                                   |
| Preparation Method      | Transfection of pSuper-TNFSF9 plasmid into HEK293H cell, and the expressed protein was purified by <i>Strep</i> -Tactin affinity column. |
| Purification            | <i>Strep</i> -Tactin affinity columns                                                                                                    |
| Concentration           | $\geq 10$ ug/ml                                                                                                                          |
| Quality Control Testing | SDS-PAGE and Western Blot<br>SDS-PAGE Gel<br>Western Blot                                                                                |
| Storage Buffer          | 100 mM Tris-HCl pH 8.0, 150 mM NaCl, 1 mM EDTA, and 5 mM desthiobiotin.                                                                  |
| Storage Instruction     | Store at -80°C. Aliquot to avoid repeated freezing and thawing.                                                                          |

## Applications

- Western Blot
- Enzyme-linked Immunoabsorbent Assay
- SDS-PAGE
- Protein Interaction

## Gene Info — TNFSF9

|                     |                                                      |
|---------------------|------------------------------------------------------|
| Entrez GeneID       | <a href="#">8744</a>                                 |
| GeneBank Accession# | <a href="#">BC104805.1</a>                           |
| Protein Accession#  | <a href="#">AAI04806.1</a>                           |
| Gene Name           | TNFSF9                                               |
| Gene Alias          | 4-1BB-L, CD137L                                      |
| Gene Description    | tumor necrosis factor (ligand) superfamily, member 9 |
| Omim ID             | <a href="#">606182</a>                               |
| Gene Ontology       | <a href="#">Hyperlink</a>                            |

**Gene Summary**

The protein encoded by this gene is a cytokine that belongs to the tumor necrosis factor (TNF) ligand and 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.

**Other Designations**

homolog of mouse 4-1BB-L|receptor 4-1BB ligand

**Pathway**

- [Cytokine-cytokine receptor interaction](#)

**Disease**

- [Birth Weight](#)
- [Genetic Predisposition to Disease](#)
- [Glioblastoma](#)
- [Glioma](#)
- [Hematologic Diseases](#)
- [Hodgkin Disease](#)
- [Leukemia](#)
- [Lymphoproliferative Disorders](#)
- [Meningeal Neoplasms](#)
- [Meningioma](#)
- [Multiple Myeloma](#)
- [Occupational Diseases](#)
- [Ovarian Neoplasms](#)
- [Waldenstrom Macroglobulinemia](#)

- [Werner syndrome](#)