

## Active Recombinant Monkey TNFRSF9 Protein, Fc-tagged, Alexa Fluor 488 conjugated

**Cat. No.** TNFRSF9-551RAF488    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
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| <b>Product Overview</b> | Alexa Fluor 488 conjugated recombinant Rhesus TNFRSF9 (NP_001253057.1) (Met1-Gln186) was expressed with the Fc region of human IgG1 at the C-terminus.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Species</b>          | Monkey                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Source</b>           | HEK293                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>ProteinLength</b>    | Met1-Gln186 401                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Description</b>      | <p>CD137 (also known as 4-1BB) is a surface co-stimulatory glycoprotein originally described as present on activated T lymphocytes, which belongs to the tumor necrosis factor (TNF) receptor superfamily. It is expressed mainly on activated CD4+ and CD8+ T cells, and binds to a high-affinity ligand (4-1BBL) expressed on several antigen-presenting cells such as macrophages and activated B cells. Upon ligand binding, 4-1BB is associated with the tumor necrosis factor receptor-associated factors (TRAFs), the adaptor protein which mediates downstream signaling events including the activation of NF-kappaB and cytokine production. 4-1BB signaling either by binding to 4-1BBL or by antibody ligation delivers signals for T-cell activation and growth, as well as monocyte proliferation and B-cell survival, and plays an important role in the amplification of T cell-mediated immune responses. In addition, CD137 and CD137L are expressed in different human primary tumor tissues, suggesting that they may influence the progression of tumors. Crosslinking of CD137 on activated T cells has shown promise</p> |

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|                                     |                                                                                                                                                                                                                                                        |
|-------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                     | in enhancing anti-tumor immune responses in murine models, and agonistic anti-CD137 antibodies are currently being tested in phase I clinical trials.                                                                                                  |
| <b>Form</b>                         | Lyophilized                                                                                                                                                                                                                                            |
| <b>Bio-activity</b>                 | Measured by its binding ability in a functional ELISA. Immobilized rhesus TNFRSF9-Fc at 10 µg/mL (100 µL/well) can bind biotinylated human TNFSF9, the EC50 of biotinylated human TNFSF9 is 20-100 ng/mL.                                              |
| <b>Molecular Mass</b>               | 44 kDa                                                                                                                                                                                                                                                 |
| <b>N-terminal Sequence Analysis</b> | Leu 24                                                                                                                                                                                                                                                 |
| <b>Endotoxin</b>                    | < 1.0 EU/ µg protein as determined by the LAL method.                                                                                                                                                                                                  |
| <b>Purity</b>                       | > 95 % as determined by SDS-PAGE                                                                                                                                                                                                                       |
| <b>Characteristic</b>               | Disulfide-linked homodimer<br>Labeled with Alexa Fluor 488 via amines<br>Excitation Wavelength: 488 nm<br>Emission Wavelength: 515-545 nm                                                                                                              |
| <b>Storage</b>                      | Samples are stable for up to twelve months from date of receipt at -70 centigrade. Store it under sterile conditions at -20 to -80 centigrade. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles. |
| <b>Storage Buffer</b>               | Lyophilized from sterile PBS, pH 7.4. Normally 5%-8% trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization.                                                                                                            |
| <b>Reconstitution</b>               | It is recommended that sterile water be added to the vial to prepare a stock solution of                                                                                                                                                               |

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0.2 µg/µL. Centrifuge the vial at 4 centigrade before opening to recover the entire contents.

**Conjugation** Alexa Fluor 488

## GENE INFORMATION

**Gene Name** TNFRSF9 TNF receptor superfamily member 9 [ *Macaca mulatta* (Rhesus monkey) ]

**Official Symbol** TNFRSF9

**Synonyms** TNFRSF9; TNF receptor superfamily member 9; tumor necrosis factor receptor superfamily member 9; tumor necrosis factor receptor superfamily, member 9

**Gene ID** 708281

**mRNA Refseq** NM\_001266128

**Protein Refseq** NP\_001253057

**UniProt ID** F6W5G6

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