

Active Recombinant Monkey TNFRSF9 Protein, Fc-tagged, FITC conjugated

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

SPECIFICATION

Product Overview

FITC conjugated recombinant Rhesus TNFRSF9 (NP_001253057.1) (Met1-Gln186) was expressed with the Fc region of human IgG1 at the C-terminus.

Species

Monkey

Source

HEK293

ProteinLength

Met1-Gln186 401

Description

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

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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.

Form

Lyophilized

Bio-activity

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.

Molecular Mass

44 kDa

N-terminal Sequence Analysis

Leu 24

Endotoxin

< 1.0 EU/ µg protein as determined by the LAL method.

Purity

> 95 % as determined by SDS-PAGE

Characteristic

Disulfide-linked homodimer
 Labeled with FITC via amines
 Excitation source: 488 nm spectral line, argon-ion laser
 Excitation Wavelength: 488 nm
 Emission Wavelength: 535 nm

Storage

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.

Storage Buffer

Lyophilized from sterile PBS, pH 7.4. Normally 5%-8% trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization.

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Reconstitution It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 µg/µL. Centrifuge the vial at 4 centigrade before opening to recover the entire contents.

Conjugation FITC

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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