

Recombinant Mouse CD40 Protein, Fc-tagged, Alexa Fluor 488 conjugated

Cat. No. Cd40-325MAF488 Lot. No. (See product label)

SPECIFICATION

Product Overview

Alexa Fluor 488 conjugated recombinant Mouse Cd40 (NP_035741.2) (Met1-Arg193) was expressed with the Fc region of rabbit IgG at the C-terminus.

Species

Mouse

Source

HEK293

ProteinLength

Met1-Arg193 405

Description

CD40, also known as TNFRSF5, is a member of the TNF receptor superfamily which are single transmembrane-spanning glycoproteins. CD40 protein plays an essential role in mediating a broad variety of immune and inflammatory responses including T cell-dependent immunoglobulin class switching, memory B cell development, and germinal center formation. CD40 protein is expressed in B cells, dendritic cells, macrophages, endothelial cells, and several tumor cell lines. Defects in CD40 result in hyper-IgM immunodeficiency type 3 (HIGM3). In addition, CD40/CD40L interaction is found to be necessary for amyloid-beta-induced microglial activation, and thus is thought to be an early event in Alzheimer disease pathogenesis.

Form

Lyophilized

Molecular Mass


45.4 kDa

N-terminal Sequence

Leu 20

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Analysis	
Endotoxin	< 1.0 EU/ µg protein as determined by the LAL method.
Purity	> 90 % as determined by SDS-PAGE
Characteristic	Disulfide-linked homodimer Labeled with Alexa Fluor 488 via amines Excitation Wavelength: 488 nm Emission Wavelength: 515-545 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.
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	Alexa Fluor 488

GENE INFORMATION

Gene Name	Cd40 CD40 antigen [<i>Mus musculus</i>]
Official Symbol	Cd40
Synonyms	CD40; CD40 antigen; tumor necrosis factor receptor superfamily member 5; CD40L

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receptor; B-cell surface antigen CD40; T-cell differentiation antigen; tumor necrosis factor receptor superfamily, member 5; IGM; p50; Bp50; GP39; IMD3; TRAP; HIGM1; T-BAM; Tnfrsf5; AI326936;


Gene ID [21939](#)

mRNA Refseq [NM_011611](#)

Protein Refseq [NP_035741](#)

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