

# Recombinant Mouse CD40 Protein, Fc-tagged, Alexa Fluor 647 conjugated

**Cat. No.** Cd40-325MAF647    **Lot. No.** (See product label)

## SPECIFICATION

<b>Product Overview</b>	Alexa Fluor 647 conjugated recombinant Mouse Cd40 (NP_035741.2) (Met1-Arg193) was expressed with the Fc region of rabbit IgG at the C-terminus.
<b>Species</b>	Mouse
<b>Source</b>	HEK293
<b>ProteinLength</b>	Met1-Arg193 405
<b>Description</b>	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.
<b>Form</b>	Lyophilized
<b>Molecular Mass</b>	45.4 kDa
<b>N-terminal Sequence</b>	Leu 20

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<b>Analysis</b>	
<b>Endotoxin</b>	< 1.0 EU/ µg protein as determined by the LAL method.
<b>Purity</b>	> 90 % as determined by SDS-PAGE
<b>Characteristic</b>	Disulfide-linked homodimer Labeled with Alexa Fluor 647 via amines Excitation = 650 nm Emission = 668 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 0.2 µg/µL. Centrifuge the vial at 4 centigrade before opening to recover the entire contents.
<b>Conjugation</b>	Alexa Fluor 647

## GENE INFORMATION

<b>Gene Name</b>	Cd40 CD40 antigen [ <a href="#">Mus musculus</a> ]
<b>Official Symbol</b>	<a href="#">Cd40</a>
<b>Synonyms</b>	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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