

Recombinant Human CD40 Protein, His-tagged, Alexa Fluor 647 conjugated

Cat. No. CD40-2221HAF647 **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Alexa Fluor 647 conjugated recombinant human CD40 (Glu21-Arg193) protein was fused to His-tag at C-terminus and expressed in human 293 cells (HEK293).
Species	Human
Source	HEK293
ProteinLength	Glu21-Arg193
Description	Tumor necrosis factor receptor superfamily member 5 (TNFRSF5) is also known as CD40, is a member of the TNF receptor superfamily. The expression of CD40 is diverse. TNFRSF5 has been found to be essential 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 is the receptor for TNFSF5/CD40LG. Defects in CD40 are the cause of immunodeficiency with hyper-IgM type 3 (HIGM3).
Form	Lyophilized
Molecular Mass	The protein has a calculated MW of 21.1 kDa. The protein migrates as 29-32 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.
N-terminal Sequence Analysis	Glu 21

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Endotoxin	< 1.0 EU/ µg by the LAL method.
Purity	> 95 % as determined by SDS-PAGE
Characteristic	Disulfide-linked homodimer Labeled with Alexa Fluor 647 via amines Excitation = 650 nm Emission = 668 nm
Storage	For long term storage, the product should be stored at lyophilized state at -20 centigrade or lower. Please avoid repeated freeze-thaw cycles. This product is stable after storage at: -20 to -70 centigrade for 12 months in lyophilized state; -70 centigrade for 3 months under sterile conditions after reconstitution.
Storage Buffer	Lyophilized from 0.22 µm filtered solution in PBS, pH7.4, 10% trehalose.
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 647

GENE INFORMATION

Gene Name	CD40
Official Symbol	CD40
Synonyms	CD40; CD40 molecule, TNF receptor superfamily member 5; TNFRSF5, tumor

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necrosis factor receptor superfamily, member 5; tumor necrosis factor receptor superfamily member 5; Bp50; p50; CD40L receptor; CD40 type II isoform; B cell-associated molecule; B cell surface antigen CD40; B-cell surface antigen CD40; CD40 antigen (TNF receptor superfamily member 5); tumor necrosis factor receptor superfamily, member 5; nerve growth factor receptor-related B-lymphocyte activation molecule; CDW40; TNFRSF5; MGC9013

Gene ID [958](#)

mRNA Refseq [NM_001250](#)

Protein Refseq [NP_001241](#)

MIM [109535](#)

UniProt ID [P25942](#)

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