

Recombinant Full Length Human CD40 Protein, GST tagged

Cat. No. CD40-2964HF **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human CD40 Protein with GST tag was expressed in E. coli.
Species	Human
Source	E.coli
Description	This gene is a member of the TNF-receptor superfamily. The encoded protein is a receptor on antigen-presenting cells of the immune system and is essential for mediating a broad variety of immune and inflammatory responses including T cell-dependent immunoglobulin class switching, memory B cell development, and germinal center formation. AT-hook transcription factor AKNA is reported to coordinately regulate the expression of this receptor and its ligand, which may be important for homotypic cell interactions. Adaptor protein TNFR2 interacts with this receptor and serves as a mediator of the signal transduction. The interaction of this receptor and its ligand is found to be necessary for amyloid-beta-induced microglial activation, and thus is thought to be an early event in Alzheimer disease pathogenesis. Mutations affecting this gene are the cause of autosomal recessive hyper-IgM immunodeficiency type 3 (HIGM3). Multiple alternatively spliced transcript variants of this gene encoding distinct isoforms have been reported.
Molecular Mass	The protein has a calculated MW of 48 kDa.
AA Sequence	MSPILGYWKIKGLVQPTRLLEYLEEKYEEHLYERDEGDKWRNKKFELGLEFPNLPY

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YIDGDVKLTQSMAIIRYIADKHNMLGGCPKERAISMLEGAVLDIRYGVSR IAYSKDFE
 TLKVDFLSKLPEMLKMFEDRLCHKTYLNGDHVTHPDFMLYDALDVVLYMDPMCLDA
 FPKLVCFKKRIEAI PQIDKYLKSSKYIAWPLQGWQATFGGGDHPPKSDGSTSGSGHH
 HHHHSAGLVPRGSTAIGMKETA AAKFERQHMDSPDLGTGGGSGDDDDKSPMVRLP
 LQCVLWGCLLTAVHPEPPTACREKQYLINSQCCSLCQPGQKLVS DCTEFTETECPL
 CGESEFLDTWNRETHFHQHKYCDPNLGLRVQQKGTSETDTICTCEE GWHCTSEAC
 ESCVLHRSCSPGFGVKQIDICQPHFPKDRGLNLLM

Purity > 90% by SDS-PAGE

Storage 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.

Concentration 1.01 mg/mL by BCA

Storage Buffer Sterile 20 mM Tris, 200 mM NaCl, 5 mM EDTA, pH 8.0

Full Length Full L.

GENE INFORMATION

Gene Name CD40 CD40 molecule, TNF receptor superfamily member 5 [Homo sapiens (human)]

Official Symbol CD40

Synonyms CD40; CD40 molecule, TNF receptor superfamily member 5; TNFRSF5, tumor 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

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superfamily, member 5; nerve growth factor receptor-related B-lymphocyte activation molecule; CDW40; TNFRSF5; MGC9013

Gene ID 958

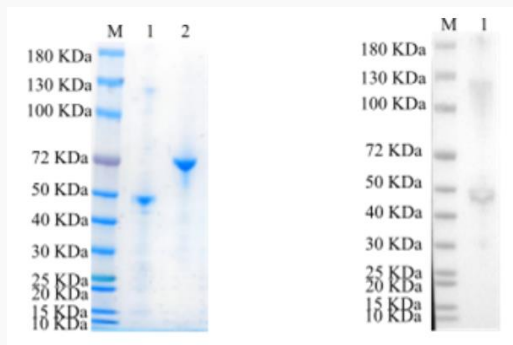
mRNA Refseq NM_001250

Protein Refseq NP_001241

MIM 109535

UniProt ID P25942

Reducing 12% SDS-PAGE (CBB stained) and WB (Anti-GST Mouse Monoclonal Antibody) analysis profile of purified CD40.



1. CD40-2964HF
2. BSA

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