

# Recombinant Full Length Human CD40 Protein, GST tagged

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

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
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| <b>Product Overview</b> | Recombinant Full Length Human CD40 Protein with GST tag was expressed in E. coli.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Description</b>      | <p>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.</p> |
| <b>Molecular Mass</b>   | The protein has a calculated MW of 48 kDa.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>AA Sequence</b>      | MSPILGYWKIKGLVQPTRLLEYLEEKYEEHLYERDEGDKWRNKKFELGLEFPNLPY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |

 Tel: 1-631-559-9269    1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)     Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

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

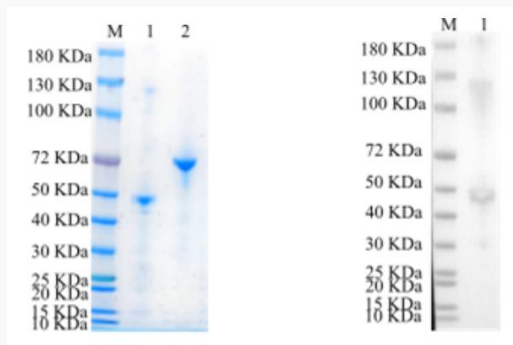
**mRNA Refseq** NM\_001250

**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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