

# Recombinant Human CD40 protein, Mouse IgG2a Fc-tagged, low endotoxin

**Cat. No.** CD40-389H    **Lot. No.** (See product label)

## SPECIFICATION

|                         |   |
|-------------------------|---|
| <b>Product Overview</b> | Recombinant Human CD40 protein (Glu21-Arg193)(low endotoxin), fused to Mouse IgG2a Fc tag at C-terminus, was expressed in human 293 cells (HEK293).   |
| <b>Species</b>          | Human   |
| <b>Source</b>           | HEK293  |
| <b>ProteinLength</b>    | 173   |
| <b>Description</b>      | CD40 is also known as TNFRSF5, Bp50, CDW40, MGC9013, TNFRSF5 and p50, is a member of the TNF receptor superfamily which are single transmembrane-spanning glycoproteins, and 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 is a costimulatory protein found on antigen presenting cells and is required for their activation. The binding of CD154 (CD40L) on TH cells to CD40 activates antigen presenting cells and induces a variety of downstream effects. CD40 contains 4 cysteine-rich repeats in the extracellular domain, and is expressed in B cells, dendritic cells, macrophages, endothelial cells, and several tumor cell lines. |
| <b>Form</b>             | Lyophilized from 0.22 um filtered solution in 50 mM Tris, 100 mM Glycine, pH7.5, 10% trehalose.   |
| <b>Molecular Mass</b>   | The protein has a calculated MW of 46.1 kDa. The protein migrates as 58 kDa under   |

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|                       |  |
|-----------------------|--|
|                       | reducing (R) condition (SDS-PAGE) due to glycosylation.  |
| <b>Endotoxin</b>      | Less than 0.1 EU per ug by the LAL method.   |
| <b>Purity</b>         | >95% as determined by SDS-PAGE.  |
| <b>Storage</b>        | <p>For long term storage, the product should be stored at lyophilized state at -20 centigrade or lower.</p> <p>Please avoid repeated freeze-thaw cycles.</p> <p>This product is stable after storage at:</p> <p>-20 centigrade to -70 centigrade for 12 months in lyophilized state;</p> <p>-70 centigrade for 3 months under sterile conditions after reconstitution.</p> |
| <b>Reconstitution</b> | It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 ug/ul. Centrifuge the vial at 4°C before opening to recover the entire contents.  |

## GENE INFORMATION

|                        |   |
|------------------------|---|
| <b>Gene Name</b>       | CD40  |
| <b>Official Symbol</b> | CD40  |
| <b>Synonyms</b>        | 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 superfamily, member 5; nerve growth factor receptor-related B-lymphocyte activation molecule; CDW40; TNFRSF5; MGC9013 |
| <b>Gene ID</b>         | 958   |

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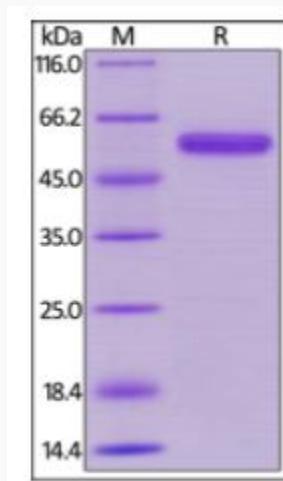
mRNA Refseq [NM\\_001250](#)

Protein Refseq [NP\\_001241](#)

MIM [109535](#)

UniProt ID [P25942](#)

**SDS-PAGE of CD40-389H**



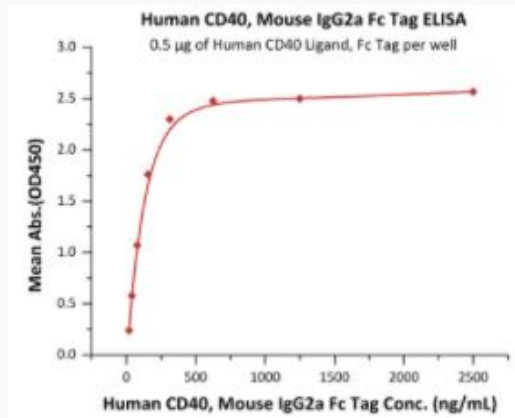
Human CD40, Mouse IgG2a Fc Tag, low endotoxin on SDS-PAGE under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 95%.

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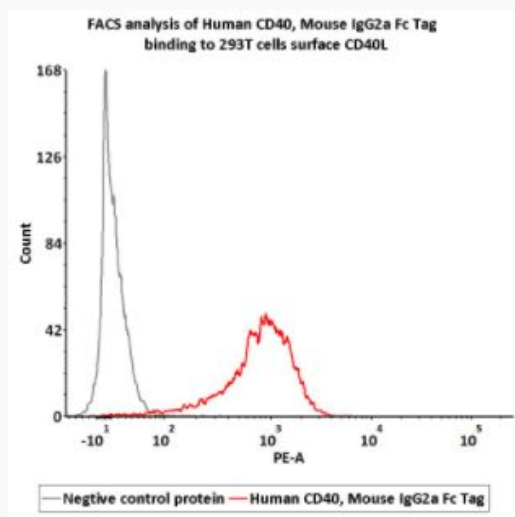
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**Bioactivity-ELISA of  
CD40-389H**



Immobilized Human CD40 Ligand, Fc Tag at 5 µg/mL (100 µL/well) can bind Human CD40, Mouse IgG2a Fc Tag, low endotoxin with a linear range of 20-156 ng/mL (QC tested).

**Bioactivity-FACS of  
CD40-389H**



FACS analysis shows that Human CD40, Mouse IgG2a Fc Tag, low endotoxin can bind to 293T cells overexpressing human CD40L. The concentration of Human CD40 is 0.03 µg/ml (Routinely tested).

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