

Datasheet for ABIN2870725 CD40 Protein (CD40) (AA 24-193) (Fc Tag)

2 Images



Overview

| Quantity: | 100 µg |
|-------------------------------|--|
| Target: | CD40 |
| Protein Characteristics: | AA 24-193 |
| Origin: | Mouse |
| Source: | HEK-293 Cells |
| Protein Type: | Recombinant |
| Biological Activity: | Active |
| Purification tag / Conjugate: | This CD40 protein is labelled with Fc Tag. |

Product Details

| Sequence: | AA 24-193 |
|------------------|---|
| Characteristics: | This protein carries a human IgG1 Fc tag at the C-terminus. The protein has a calculated MW of 44.9 kDa. The protein migrates as 57 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation. |
| Purity: | >90 % as determined by SDS-PAGE. |
| Endotoxin Level: | Less than 1.0 EU per μg by the LAL method. |
| Target Details | |
| Target: | CD40 |

| Target. | |
|-------------------|----------------------|
| Alternative Name: | CD40 (CD40 Products) |

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| 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 activate |
| 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. The extracellular domain has the |
| cysteinerich repeat regions, which are characteristic for many of the receptors of the TNF |
| superfamily. Interaction of CD40 with its ligand, CD40L, leads to aggregation of |
| CD40 Molecules, which in turn interact with cytoplasmic components to initiate signaling |
| pathways. Early studies on the CD40-CD40L system revealed its role in humoral immunity. |
| Defects in CD40 result in hyper-IgM immunodeficiency type 3 (HIGM3), an autosomal recessive |
| disorder characterized by an inability of B cells to undergo isotype switching, as well as an |
| inability to mount an antibody-specific immune response, and a lack of germinal center |
| formation. |
| 45.0 kDa |
| |

 UniProt:
 P27512

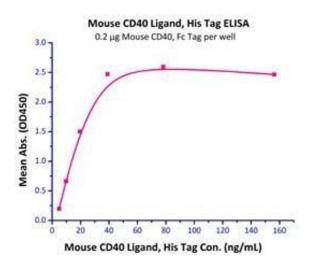
 Pathways:
 NF-kappaB Signaling, Cellular Response to Molecule of Bacterial Origin, M Phase, Regulation of Leukocyte Mediated Immunity, Positive Regulation of Immune Effector Process, Production of Molecular Mediator of Immune Response, Cancer Immune Checkpoints

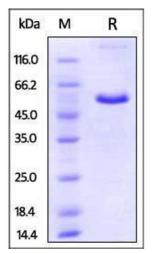
Application Details

| Restrictions: | For Research Use only |
|------------------|--|
| Handling | |
| Format: | Lyophilized |
| Buffer: | Tris with Glycine, Arginine and NaCl, pH 7.5 |
| Handling Advice: | Please avoid repeated freeze-thaw cycles. |
| Storage: | -20 °C |

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Images





Binding Studies

Image 1. Immobilized Mouse CD40, Fc Tag with a linear range of 5-20 ng/mL.

SDS-PAGE

Image 2. Mouse CD40, Fc Tag on SDS-PAGE under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 92%.

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