

MOUSE CD40 PROTEIN, HFC TAG

Cat.#: 12166

Product Name: Mouse CD40 Protein

Size: 10 µg, 50 µg and 100 µg

Synonyms: Bp50;CD40L receptor;Tnfrsf5

Target: CD40

UNIPROT ID: P27512

Description: Recombinant mouse CD40 protein with C-terminal human Fc tag

Background: 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. [provided by RefSeq, Nov 2014]

Species/Host: HEK293

Molecular Weight: The protein has a predicted molecular mass of 45.1 kDa after removal of the signal peptide. The apparent molecular mass of mCD40-hFc is approximately 55-70 kDa due to glycosylation.

Molecular Characterization: Mouse CD40(Val24-Arg193) hFc(Glu99-Ala330)

Purity: The purity of the protein is greater than 95% as determined by SDS-PAGE and Coomassie blue staining.

Formulation & Reconstitution: Lyophilized from nanodisc solubilization buffer (20 mM Tris-HCl, 150 mM NaCl, pH 8.0). Normally 5% – 8% trehalose is added as protectants before lyophilization.

Storage & Shipping: Store at -20°C to -80°C for 12 months in lyophilized form. After reconstitution, if not intended for use within a month, aliquot and store at -80°C (Avoid repeated freezing and thawing). Lyophilized proteins are shipped at ambient temperature.

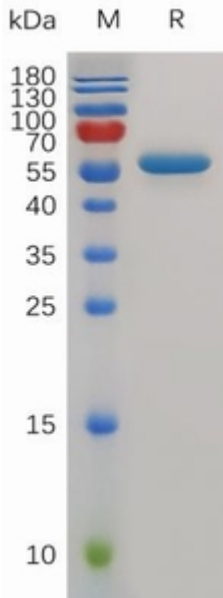


Figure 1. Mouse CD40 Protein, hFc Tag on SDS-PAGE under reducing condition.