10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

CD40

Catalog # PVGS1631

Specification

CD40 - Product Information

Primary Accession P25942

Species
Human

Sequence
Glu21-Arg193

Purity
> 95% as analyzed by SDS-PAGE
> 95% as analyzed by HPLC

Endotoxin Level
≤ 1 EU/ μg of protein by LAL method

Biological Activity
Immobilized Human CD40, His Tag at 0.5 μg/ml (100 μl/Well). Dose response curve for Human CD40L, hFc Tag with the EC₅₀ of 0.22 μg/ml determined by ELISA.

Expression System
Expi293

Formulation **Lyophilized from a 0.22 μm filtered solution in PBS, pH 7.4. Normally 5 % trehalose is added as protectant before lyophilization.**

Reconstitution
It is recommended that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute the lyophilized powder in distilled water up to 100 μg/ml.

Storage & Stability
Upon receiving, this product remains stable for up to 6 months at -70°C or -20°C. Avoid repeated freeze-thaw cycles.

CD40 - Additional Information

Gene ID 958

Other Names
Tumor necrosis factor receptor superfamily member 5, B-cell surface antigen CD40, Bp50, CD40L receptor, CDw40, CD40, CD40, TNFRSF5

Target Background
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 molecule is a potential target for cancer

immunotherapy. There are number of completed and ongoing clinical trials where agonistic anti-CD40 monoclonal antibodies are employed to activate an anti-tumor T cell response via activation of dendritic cells.

CD40 - Protein Information

Name CD40

Synonyms TNFRSF5

Function
Receptor for TNFSF5/CD40LG (PubMed:31331973). Transduces TRAF6- and MAP3K8-mediated signals that activate ERK in macrophages and B cells, leading to induction of immunoglobulin secretion (By similarity).

Cellular Location
[Isoform I]: Cell membrane; Single-pass type I membrane protein

Tissue Location
B-cells and in primary carcinomas.

CD40 - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

CD40 - Images