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CD40

Catalog # PVGS1631

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 EC_{50} 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.

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.

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.