

# CD40

Catalog # PVGS1631

## Product Information

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| <b>Primary Accession Species</b> | <a href="#">P25942</a><br>Human  |
| <b>Sequence</b>                  | Glu21-Arg193   |
| <b>Purity</b>                    | > 95% as analyzed by SDS-PAGE<br>> 95% as analyzed by HPLC   |
| <b>Endotoxin Level</b>           | ≤ 1 EU/ $\mu$ g of protein by LAL method   |
| <b>Biological Activity</b>       | Immobilized Human CD40, His Tag at 0.5 $\mu$ g/ml (100 $\mu$ l/Well). Dose response curve for Human CD40L, hFc Tag with the EC <sub>50</sub> of 0.22 $\mu$ g/ml determined by ELISA.       |
| <b>Expression System</b>         | Expi293  |
| <b>Formulation</b>               | Lyophilized from a 0.22 $\mu$ m filtered solution in PBS, pH 7.4. Normally 5 % trehalose is added as protectant before lyophilization.   |
| <b>Reconstitution</b>            | 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 $\mu$ g/ml. |
| <b>Storage &amp; Stability</b>   | Upon receiving, this product remains stable for up to 6 months at -70°C or -20°C. Avoid repeated freeze-thaw cycles.   |

## Additional Information

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| <b>Gene ID</b>           | 958  |
| <b>Other Names</b>       | Tumor necrosis factor receptor superfamily member 5, B-cell surface antigen CD40, Bp50, CD40L receptor, CDw40, CD40, CD40, TNFRSF5   |
| <b>Target Background</b> | 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

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| <b>Name</b>              | CD40  |
| <b>Synonyms</b>          | TNFRSF5   |
| <b>Function</b>          | Receptor for TNFSF5/CD40LG (PubMed: <a href="#">31331973</a> ). Transduces TRAF6- and MAP3K8-mediated signals that activate ERK in macrophages and B cells, leading to induction of immunoglobulin secretion (By similarity). |
| <b>Cellular Location</b> | [Isoform I]: Cell membrane; Single-pass type I membrane protein   |
| <b>Tissue Location</b>   | B-cells and in primary carcinomas.  |

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.