

Human CellExp™ CD40 Ligand / TNFSF5 Protein, Fc Tag, Mouse recombinant
CD40LG ,CD154, CD40L, HIGM1, IGM, IMD3, T-BAM, TNFSF5, TRAP, gp39
Catalog # PBV11607r**Specification**

Human CellExp™ CD40 Ligand / TNFSF5 Protein, Fc Tag, Mouse recombinant - Product info

Primary Accession [P27548](#)
Calculated MW **42.9 kDa KDa**

Human CellExp™ CD40 Ligand / TNFSF5 Protein, Fc Tag, Mouse recombinant - Additional Info

Gene ID **21947**
Other Names
CD40LG , CD154, CD40L, HIGM1, IGM, IMD3, T-BAM, TNFSF5, TRAP, gp39

Gene Source **Mouse**
Source **HEK 293 cells**
Assay&Purity **SDS-PAGE;> 95%**
Recombinant **Yes**
Target/Specificity
Cd40lg

Application Notes

Reconstitute in sterile deionized water to the desired protein concentration.

Format

Lyophilized

Storage

-20°C;Lyophilized from 0.22 µm filtered solution in PBS, pH7.4. Normally Trehalose is added as protectant before lyophilization.

Human CellExp™ CD40 Ligand / TNFSF5 Protein, Fc Tag, Mouse recombinant - Protocols

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

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Human CellExp™ CD40 Ligand / TNFSF5 Protein, Fc Tag, Mouse recombinant - Images

Human CellExp™ CD40 Ligand / TNFSF5 Protein, Fc Tag, Mouse recombinant - Background

CD40 ligand is also known as CD40L, CD154, TNFSF5 and T-cell antigen Gp39, is a single-pass type II membrane protein which belongs to the TNF superfamily of molecules. CD40 ligand is expressed predominantly on activated CD4+ T lymphocytes, and also found in other types of cells, including platelets, mast cells, macrophages, basophils, NK cells, B lymphocytes, as well as non-haematopoietic cells (smooth muscle cells, endothelial cells, and epithelial cells). Although all monomeric, dimeric and trimeric forms of soluble CD40 ligand can bind to CD40, the trimeric form of soluble CD40 ligand has the most potent biological activity through oligomerization of cell surface CD40, a common feature of TNF receptor family members. CD40 ligand binds to CD40 on antigen-presenting cells (APC), which leads to many effects depending on the target cell type. In general, CD40 ligand plays the role of a costimulatory molecule and induces activation in APC in association with T cell receptor stimulation by MHC molecules on the APC. In total CD40 ligand has three binding partners: CD40, $\alpha 5\beta 1$ integrin and $\alpha IIb\beta 3$. CD40 ligand regulates B cell function by engaging CD40 on the B cell surface. A defect in this gene results in an inability to undergo immunoglobulin class switch and is associated with hyper IgM syndrome.