

CD27 Ligand/CD70
Catalog # PVGS1595**Specification**

CD27 Ligand/CD70 - Product Information

Primary Accession [P32970](#)
Species
Human

Sequence
Gln39-Pro193

Purity
> 95% as analyzed by SDS-PAGE

Endotoxin Level
< 1 EU/ µg of protein by gel clotting method

Biological Activity
Immobilized CD27 (Mammalian, C-Fc-6His) at 1.0 µg/ml (100 µl/well) can bind CD27 Ligand/CD70, hFc, Human with EC₅₀=18.33 ng/ml when detected by SA-HRP.

Expression System
HEK 293

Formulation **Lyophilized from a 0.2 µm filtered solution in PBS.**

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 ddH₂O or PBS up to 100 µg/ml.

Storage & Stability
Upon receiving, this product remains stable for up to 6 months at lower than -70°C. Upon reconstitution, the product should be stable for up to 1 week at 4°C or up to 3 months at -20°C. For long term storage it is recommended that a carrier protein (example 0.1% BSA) be added. Avoid repeated freeze-thaw cycles.

CD27 Ligand/CD70 - Additional Information

Gene ID 970

Other Names
CD70 antigen, CD27 ligand, CD27-L, Tumor necrosis factor ligand superfamily member 7 {ECO:0000312|HGNC:HGNC:11937}, CD70, CD70 ([HGNC:11937](http://www.genenames.org/cgi-bin/gene_symbol_report?hgnc_id=11937))

Target Background
CD70 (Cluster of Differentiation 70) is a protein that in humans is encoded by CD70 gene. CD70 is

a ligand for CD27. The CD70-CD27 pathway plays an important role in the generation and maintenance of T cell immunity, in particular during antiviral responses. Upon CD27 binding, induces the proliferation of costimulated T-cells and enhances the generation of cytolytic T-cells. The CD70 protein is expressed on highly activated lymphocytes (like in T- and B-cell lymphomas). It is therefore suggested that anti-CD70 antibodies might be a possible treatment for CD70 positive lymphomas as normal lymphocytes have low CD70 expression.

CD27 Ligand/CD70 - Protein Information

Name CD70 ([HGNC:11937](#))

Function

Expressed at the plasma membrane of B cells, it is the ligand of the CD27 receptor which is specifically expressed at the surface of T cells (PubMed:28011863, PubMed:28011864, PubMed:8387892). The CD70-CD27 signaling pathway mediates antigen-specific T cell activation and expansion which in turn provides immune surveillance of B cells (PubMed:28011863, PubMed:28011864).

Cellular Location

Cell membrane; Single-pass type II membrane protein

CD27 Ligand/CD70 - 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](#)

CD27 Ligand/CD70 - Images