

Recombinant Mouse TNFSF7/CD27 Ligand/CD70 Ligand Protein

RPCB1288



Product Information

Product SKU:	RPCB1288	Gene ID:	21948	Size:	10µg
Tag:	N-his	Reactivity:	Mouse		

Additional Information

Expression Host:	HEK293 cells	Swissprot:	O55237
Purity:	-		

Protein Information

Background: CD70 is the ligand of CD27 in activated T and B lymphocytes, is an important cytokine in CD70-CD27 pathway involving with the generation and maintenance of T cell immunity. CD70 is a surface antigen, also shows antiviral activity and regulates viability of tumor cells and regulatory T cells. As for CD70 protein in mouse contains TNF₂ domain (60-190 a.a) and transmembrane helix, belonging to the tumor necrosis factor (TNF) family. CD70 (CD27 Ligand) belongs to the tumor necrosis factor (TNF) family, is the ligand for TNFRSF27/CD27.

CD70 and CD27 are homotrimer type II and homodimer type I transmembrane glycoprotein, expressing on activated and resting T and B lymphocytes, respectively. As for a widely use of CD70 in animal disease model, the sequence of amino acids in mouse is very different from human (56.25%) and rat (77.20%).

CD70 as one of the most frequently mutated genes in a series of diffuse large B cell lymphomas, especially acts in a crucial Epstein-Barr virus (EBV)-specific T cell immunity and more generally for the immune surveillance of B cells. CD70 inhibits EBV infection by restoring the expansion of EBV-specific T lymphocytes stimulated by the CD70-deficient EBV-infected B cells.

CD70 involves in activation of innate and adaptive immunity, expressing in the mature dendritic cells and being up-regulated upon the triggering of CD40 or Toll-like receptors.

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CD70 induces proliferation of costimulated T cells, enhances the generation of cytolytic T cells, and contributes to T cell activation.

CD70 is also reported to play a role in regulating B-cell activation, cytotoxic function of natural killer cells, and immunoglobulin synthesis. Targeting CD70 positive tumors with CAR-T cells induces a potent antitumor response.

Protein Description: High quality, high purity and low endotoxin recombinant Recombinant Mouse TNFSF7/CD27 Ligand/CD70 Ligand Protein, tested reactivity in HEK293 cells and has been validated in SDS-PAGE. 100% guaranteed.

Endotoxin: <0.1 EU/μg of the protein by LAL method.

Formulation: Lyophilized from a 0.22 μm filtered solution of PBS, pH 7.4.

Storage: Store at -20°C. Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt. After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.