

Recombinant Mouse CD40LG Protein

Cat. No. CD40LG-636M Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse CD40LG protein without tag was expressed in HEK293.
Species	Mouse
Source	HEK293
ProteinLength	260
Description	Predicted to enable CD40 receptor binding activity and integrin binding activity. Involved in isotype switching. Acts upstream of or within B cell differentiation and regulation of immunoglobulin production. Located in external side of plasma membrane. Is expressed in Meckel's cartilage; dorsal root ganglion; and limb. Used to study inflammatory bowel disease and systemic lupus erythematosus. Human ortholog(s) of this gene implicated in several diseases, including Kawasaki disease; artery disease (multiple); autoimmune disease (multiple); combined T cell and B cell immunodeficiency (multiple); and hematologic cancer (multiple). Orthologous to human CD40LG (CD40 ligand).
Form	Lyophilized
Molecular Mass	16.8 kDa
AA Sequence	MIETYSQPSPRSVATGLPASMKIFMYLLTVFLITQMIGSVLFAVYLHRRLDKVEEEVNL HEDFVFIKCLKRCNKGEGLSLLNCEEMRRQFEDLVKDITLNKEEKENSFEMQRGD EDPQIAAHVVSEANSNAASVLQWAKKGYTMTKSNLVMLENGKQLTVKREGLYYVYT

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QVTFCSNREPSSQRPFIVGLWLKPSSGSERILLKAANTHSSSQLCEQQSVHLGGVF
ELQAGASVFNVTASQVIHRVGFSSFGLLKL

Purity > 98%

Applications WB; ELISA; FACS; FC

Stability This bioreagent is stable at 4 centigrade (short-term) and -70 centigrade(long-term). After reconstitution, sample may be stored at 4 centigrade for 2-7 days and below -18 centigrade for future use.

Storage At -20 centigrade.

Concentration 1 mg/mL

Storage Buffer PBS (pH 7.4-7.5). Sterile-filtered colorless solution.

Reconstitution Reconstitute in sterile distilled H₂O to no less than 100 µg/mL; dilute reconstituted stock further in other aqueous solutions if needed. Please review COA for lot-specific instructions. Final measurements should be determined by the end-user for optimal performance.

GENE INFORMATION

Gene Name Cd40lg CD40 ligand [*Mus musculus* (house mouse)]

Official Symbol CD40LG

Synonyms CD40LG; CD40 ligand; T-cell antigen Gp39; TNF-related activation protein; tumor necrosis factor ligand superfamily member 5; IGM; IMD3; Ly62; TRAP; gp39; CD154; Cd40l; HIGM1; Ly-62; T-BAM; CD40-L; Tnfsf5;

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Gene ID	21947
mRNA Refseq	NM_011616
Protein Refseq	NP_035746
UniProt ID	P27548

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