

Recombinant Rabbit CD40LG Protein

Cat. No. CD40LG-02R Lot. No. (See product label)

SPECIFICATION

Product Overview	The Rabbit CD40LG recombinant protein without tag was produced in yeast and therefore does not have endotoxin, is naturally folded, and post-translationally modified.
Species	Rabbit
Source	Yeast
Description	CD40 Ligand (CD40LG) is a transmembrane protein that is a member of the TNF superfamily. In addition to existing in a membrane bound form, CD40LG can also be released as a soluble molecule (sCD40LG), which has been shown to have biological functions. CD40 interacts with CD40 ligand (aka CD40LG, TNFSF5 or CD154), which is predominantly expressed on activated CD4+ T-cells. CD40LG is transiently expressed on activated T-cells and plays a crucial role in B-cell function. Activated T-cells expressing CD40LG can also interact with CD40 on endothelial cells to induce production of inflammatory cytokines. The transient expression of CD40LG allows T-cells to stimulate selected CD40-bearing cells to participate in the immune response. Increased levels of sCD40LG have been measured in patients with SLE, RA, inflammatory bowel diseases, systemic sclerosis, and Sjogren's syndrome. In culture, canine sCD40LG was shown to promote the maturation and activation of canine monocyte derived Dendritic cells.
Molecular Mass	16.2 kDa

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AA Sequence MQKGDQDPQIAAHLISEASSKSSSVLQWAKKGYTMSNTLVTLENGKQLKVKRQGF
YYIYAQVTFCSNQEPSSQAPFIASLCLKSSGGSERILLRAANARSSSKTCEQQSIHLG
GVFELQADASVFNVTASQVNHGTGFTSFGLLKL(149)

Applications The Rabbit CD40LG endotoxin-free recombinant protein can be used in cell culture, as an ELISA Standard, and as a Western Blot Control.

GENE INFORMATION

Gene Name CD40LG CD40 ligand [*Oryctolagus cuniculus* (rabbit)]

Official Symbol CD40LG

Synonyms CD40LG; CD40 ligand; TNLG8B; CD40 ligand; tumor necrosis factor ligand 8B

Gene ID 100358388

mRNA Refseq NM_001256781

Protein Refseq NP_001243710

UniProt ID G1SKP7

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