

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

Gene Name	CD40LG CD40 ligand [<i>Oryctolagus cuniculus</i> (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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