

## **Human CD40 Ligand (hCD40L)**



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<b>MW (kDa):</b> 16	<b>UniProt ID:</b> #P29965	Entrez-Gene Id: 959
Background		CD40 Ligand (CD40L), a member of the TNF superfamily of ligands, is expressed as either a membrane-bound or soluble homotrimer (1). Both membrane-bound and soluble forms of CD40L have biological activity (1,2). CD40L is expressed primarily on activated T cells; however, mast cells, basophils, and NK cells may also express CD40L (1). CD40L functions as an important T cell co-stimulatory molecule and enhances T-dependent B cell responses (1,2). CD40L binds CD40, which is a receptor expressed on B cells, dendritic cells, and macrophages (1). Binding of CD40L to CD40 leads to the recruitment of TRAF proteins (TRAFs 2,3,5, and 6) resulting in the activation of the JNK and NF-кВ pathways (1,2).
Endotoxin		Less than 0.01 ng endotoxin/1 μg hCD40L.
Purity		>98% as determined by SDS-PAGE of 6 $\mu g$ reduced (+) and non-reduced (-) recombinant hCD40L. All lots are greater than 98% pure.
Source / Purification		Recombinant human CD40 Ligand (hCD40L) Met113-Leu261 (Accession #P29965) was produced in <i>E. coli</i> at Cell Signaling Technology.
Bioactivity		The bioactivity of recombinant hCD40L was determined in a cell proliferation assay using human B cells. The ED $_{50}$ of each lot is between 0.5-2 $\mu$ g/ml.
Background References		1. van Kooten, C. and Banchereau, J. (2000) <i>J Leukoc Biol</i> 67, 2-17. 2. Peters, A.L. et al. (2009) <i>Semin Immunol</i> 21, 293-300.

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