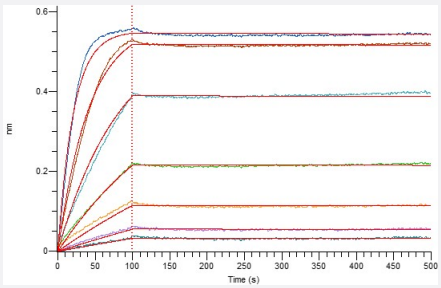
RecomAb™ | *In Vivo* Functional Grade Antibodies | Sm Size

# CD40LG recombinant monoclonal antibody

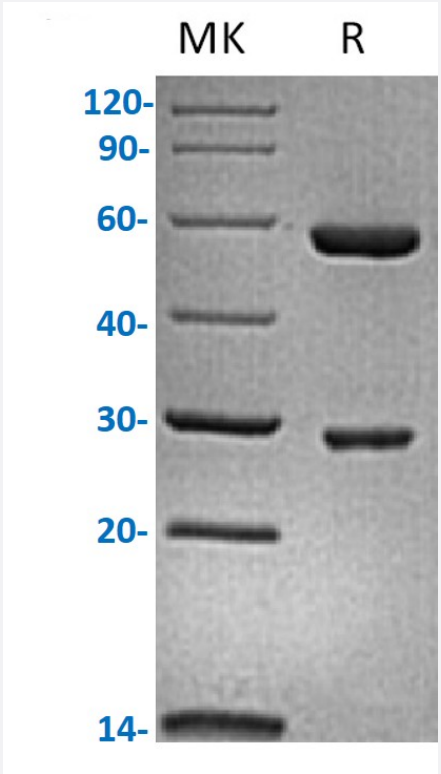
Catalog # RAB09511 Size 50 ug

## Applications




### Bio-layer interferometry

Loaded Human CD40LG Antibody (Cat # RAB09511) on Protein A Biosensor, can bind Human CD40LG with an affinity constant of 0.02 nM as determined in BLI assay.




### SDS-PAGE

Greater than 95% as determined by reducing SDS-PAGE.

## Specification

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| | |
|---|---|
| **Product Description** | CD40LG recombinant monoclonal antibody, IgG1 targeting Human CD40LG recombinant protein. |
| **Antibody Species** | Human |
| **Theoretical MW (kDa)** | 49.0, 23.9 |
| **Reactivity** | Human |
| **Form** | Liquid |
| **Preparation Method** | Mammalian cell expression system |
| **Isotype** | Human IgG1 |
| **Purity** | ≥ 95% by SDS-PAGE |
| **Endotoxin Level** | < 1 EU per 1 ug of the protein by the LAL method. |
| **Form** | Liquid |
| **Isotype** | IgG1 |
| **Storage Buffer** | In PBS, pH 7.4 |
| **Sterility** | 0.2 um filtration |
| **Storage Instruction** | Store at -20°C, stable for 12 months after receipt.<br>Aliquot to avoid repeated freezing and thawing. |

## Applications

- Bio-layer interferometry

  Loaded Human CD40LG Antibody (Cat # RAB09511) on Protein A Biosensor, can bind Human CD40LG with an affinity constant of 0.02 nM as determined in BLI assay.

## Gene Info — CD40LG

| | |
|---|---|
| **Entrez GeneID** | 959 |
| **Protein Accession#** | P29965 |
| **Gene Name** | CD40LG |
| **Gene Alias** | CD154, CD40L, HIGM1, IGM, IMD3, T-BAM, TNFSF5, TRAP, gp39, hCD40L |
| **Gene Description** | CD40 ligand |

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| | |
|---|---|
| **Omim ID** | 300386 308230 |
| **Gene Ontology** | Hyperlink |
| **Gene Summary** | The protein encoded by this gene is expressed on the surface of T cells. It regulates B cell functio n by engaging CD40 on the B cell surface. A defect in this gene results in an inability to undergo i mmunoglobulin class switch and is associated with hyper-IgM syndrome. [provided by RefSeq |
| **Other Designations** | CD40 antigen ligand\|OTTHUMP00000024130\|T-B cell-activating molecule\|TNF-related activation protein\|tumor necrosis factor (ligand) superfamily member 5 |

## Pathway

- Allograft rejection
- Asthma
- Autoimmune thyroid disease
- Cell adhesion molecules (CAMs)
- Cytokine-cytokine receptor interaction
- Primary immunodeficiency
- Systemic lupus erythematosus
- T cell receptor signaling pathway

## Disease

- Alzheimer disease
- Arthritis
- Asthma
- Atherosclerosis
- Bronchiolitis
- Calcinosis
- Cardiovascular Diseases
- Coronary Artery Disease

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- Coronary Stenosis
- Diabetes Complications
- Diabetes Mellitus
- Diabetic Angiopathies
- Disease Progression
- Drug Eruptions
- Edema
- Genetic Predisposition to Disease
- Graves Disease
- Immunologic Deficiency Syndromes
- Infant
- Lupus Erythematosus
- Malaria
- Metabolic Syndrome X
- Mucocutaneous Lymph Node Syndrome
- Neoplasms
- Obesity
- Osteoporosis
- Ovarian Failure
- Pemphigus
- Polycystic Ovary Syndrome
- Puberty
- Renal Insufficiency
- Respiratory Syncytial Virus Infections
- Severe Combined Immunodeficiency
- Thrombophilia

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- Tobacco Use Disorder
- Tuberculosis
- Werner syndrome

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