

# Biotin-conjugated CD40L/CD154 Monoclonal antibody

Catalog Number: **Biotin-66502**

## Basic Information

Catalog Number: Biotin-66502	GenBank Accession Number: BC071754	Purification Method: Protein A purification
Size: 2000 µg/ml	GeneID (NCBI): 959	CloneNo.: 1E6D10
Source: Mouse	UNIPROT ID: P29965	Recommended Dilutions: IHC 1:50-1:500
Isotype: IgG2a	Full Name: CD40 ligand	
Immunogen Catalog Number: AG24941	Calculated MW: 261 aa, 29 kDa	

## Applications

Tested Applications: IHC	Positive Controls: IHC : human tonsillitis tissue,
Species Specificity: human	

**Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

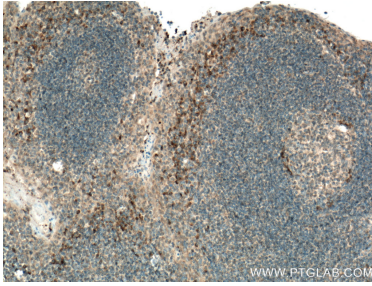
## Background Information

The CD40 ligand (CD40L, TRAP, CD154), a member of the TNF superfamily of ligands, is expressed as either a 33-kDa transmembrane homologue or 18-kDa soluble form (sCD154). CD40L is primarily expressed on activated CD4<sup>+</sup> T cells and on a small proportion of CD8<sup>+</sup> T cells and platelets. It binds to CD40 on antigen-presenting cells (APC), which leads to many effects depending on the target cell type. Recent studies have suggested that CD40/CD40L interactions regulate oxidative stress and affect various signaling pathways in both the immunological and the cardiovascular systems. The CD40/CD40L system is also involved in tumorigenesis. Its expression is tightly regulated, and abnormal levels of CD40L are associated with the pathogenesis of atheromatous plaque destabilization and thrombotic events. Multiple mutations in CD40LG gene have been identified that are associated with hyper-IgM immunodeficiency syndrome type 1.

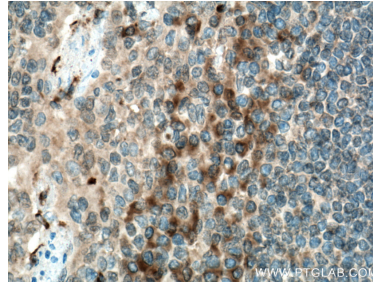
## Storage

**Storage:**  
Store at -20°C. Avoid exposure to light. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 50% Glycerol, 0.05% Proclin300, 0.5% BSA, pH 7.3.  
Aliquoting is unnecessary for -20°C storage

## Selected Validation Data



Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using Biotin-66502 (CD40L/CD154 antibody) at dilution of 1:200 (under 10x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using Biotin-66502 (CD40L/CD154 antibody) at dilution of 1:200 (under 40x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).