

CD40L Rabbit mAb

Catalog No: #49477



Package Size: #49477-1 50ul #49477-2 100ul

Orders: [order@signalwayantibody.com](mailto:order@signalwayantibody.com)  
Support: [tech@signalwayantibody.com](mailto:tech@signalwayantibody.com)

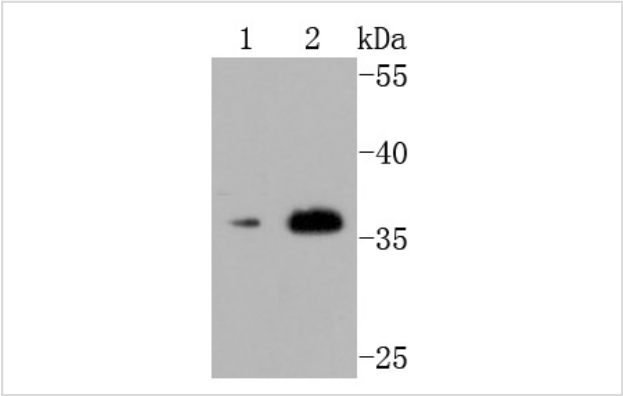
Description

Product Name	CD40L Rabbit mAb
Host Species	Recombinant Rabbit
Clonality	Monoclonal antibody
Clone No.	JM11-34
Purification	ProA affinity purified
Applications	WB, ICC/IF,IHC, FC
Species Reactivity	Hu, Ms,Rt
Immunogen Description	recombinant protein
Other Names	CD 40L antibody CD154 antibody CD40 antigen ligand antibody CD40 ligand antibody CD40 ligand, soluble form antibody CD40-L antibody CD40L antibody CD40L_HUMAN antibody CD40LG antibody gp39 antibody hCD40L antibody HIGM1 antibody IGM antibody IMD3 antibody T B cell activating molecule antibody T BAM antibody T-cell antigen Gp39 antibody TNF-related activation protein antibody TNFSF5 antibody TrAP antibody Tumor necrosis factor (ligand) superfamily member 5 antibody Tumor necrosis factor ligand superfamily member 5 antibody
Accession No.	Swiss-Prot#:P29965
Calculated MW	36 kDa
Formulation	1*TBS (pH7.4), 1%BSA, 40%Glycerol. Preservative: 0.05% Sodium Azide.
Storage	Store at -20°C

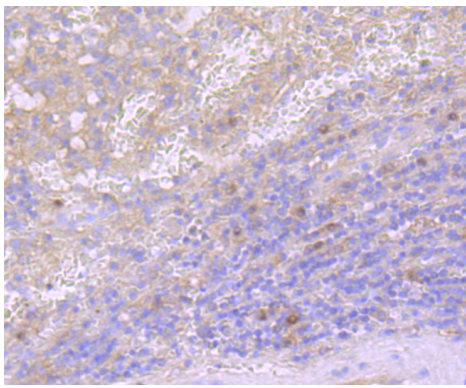
Application Details

WB: 1:500-1:1,000  
IHC: 1:50-1:200  
ICC: 1:50-1:200  
FC: 1:50-1:100

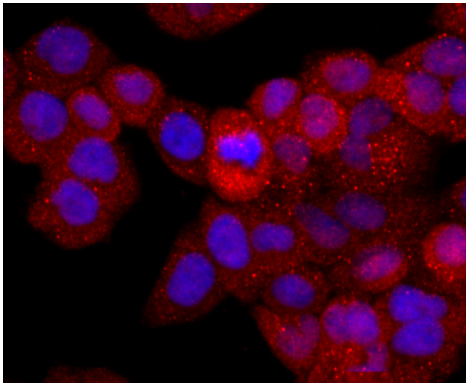
Images



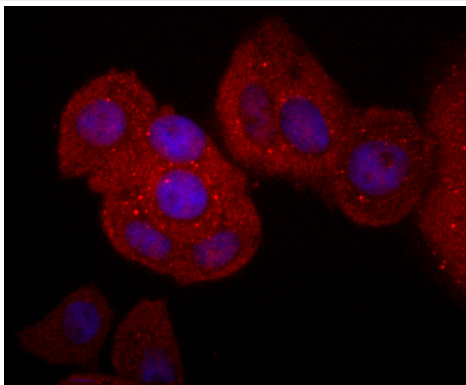
Western blot analysis of CD40L on different cells lysates using anti-CD40L antibody at 1/500 dilution. Positive control:  
Lane 1: Hela      Lane 2: Mouse liver



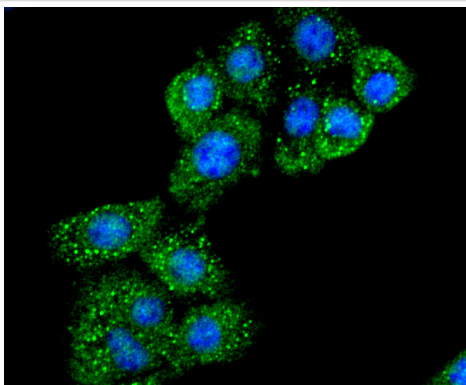
Immunohistochemical analysis of paraffin-embedded human spleen tissue using anti- CD40L antibody. Counter stained with hematoxylin.



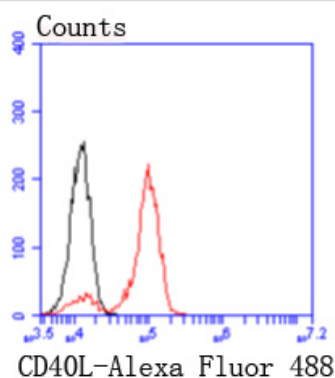
ICC staining CD40L in HeLa cells (red). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



ICC staining CD40L in MCF-7 cells (red). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



ICC staining CD40L in NIH-3T3 cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



Flow cytometric analysis of THP-1 cells with CD40L antibody at 1/50 dilution (red) compared with an unlabelled control (cells without incubation with primary antibody; black). Alexa Fluor 488-conjugated goat anti rabbit IgG was used as the secondary antibody.

## Background

Resting B cells can be activated and clonally expanded into antibody-producing cells in response to a combination of cell contact and soluble signals provided by primed helper T (Th) cells. While cytokines IL-4 and IL-13 alone are inadequate for B cell activation, contact with Th cells seems to be sufficient for delivery of proliferative signals. CD40 and CD154 (also designated CD40L or TRAP) comprise a receptor ligand pair central to the transmission of this signal. CD40 is expressed on the surface of B cells and CD154 is expressed on activated T cells. In the presence of such stimulus, IL-4 and IL-13 are capable of triggering immunoglobulin class switching and secretion of IgE. CD154 is a 261 amino acid protein that is expressed as a soluble cytokine as well as a homotrimeric type II transmembrane protein. Its expression is tightly regulated, and abnormal levels of CD154 are associated with the pathogenesis of atheromatous plaque destabilization and thrombotic events. Mutations in the gene encoding for CD154 are implicated in hyper-IgM immunodeficiency syndrome type 1.

## References

1. Matus-Nicodemus R et al. Polypyrimidine tract-binding protein is critical for the turnover and subcellular distribution of CD40 ligand mRNA in CD4+ T cells. *J Immunol* 186:2164-71 (2011).
2. Hwang Y et al. Acquired, but not innate, immune responses to *Streptococcus pneumoniae* are compromised by neutralization of CD40L. *Infect Immun* 68:511-7 (2000).

Note: This product is for in vitro research use only and is not intended for use in humans or animals.