

For Research Use Only

# CD40 Monoclonal antibody

Catalog Number: 66965-1-Ig **2 Publications**



## Basic Information

<b>Catalog Number:</b> 66965-1-Ig	<b>GenBank Accession Number:</b> BC012419	<b>Purification Method:</b> Protein G purification
<b>Size:</b> 150ul , Concentration: 1800 ug/ml by Nanodrop and 1000 ug/ml by Bradford method using BSA as the standard;	<b>GeneID (NCBI):</b> 958	<b>CloneNo.:</b> 2A8G5
<b>Source:</b> Mouse	<b>ENSEMBL Gene ID:</b> ENSG00000101017	<b>Recommended Dilutions:</b> WB: 1:2000-1:10000 IHC: 1:2500-1:10000 IF-P: 1:200-1:800 IF/ICC: 1:200-1:800
<b>Isotype:</b> IgG1	<b>UNIPROT ID:</b> P25942	
<b>Immunogen Catalog Number:</b> AG28040	<b>Full Name:</b> CD40 molecule, TNF receptor superfamily member 5	
	<b>Calculated MW:</b> 277 aa, 31 kDa	
	<b>Observed MW:</b> 43 kDa	

## Applications

<b>Tested Applications:</b> WB, IHC, IF/ICC, IF-P, ELISA	<b>Positive Controls:</b> WB : Raji cells, Daudi cells
<b>Cited Applications:</b> IHC	<b>IHC :</b> human tonsillitis tissue, human lymphoma tissue
<b>Species Specificity:</b> human	<b>IF-P :</b> human tonsillitis tissue,
<b>Cited Species:</b> human	<b>IF/ICC :</b> Ramos cells, Raji cells
<b>Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0</b>	

## Background Information

CD40, also named as TNFRSF5 and Bp50, is a receptor for TNFSF5/CD40LG. It is a member of the TNFR superfamily and is responsible for the efficient activation of cell-mediated and humoral immune responses via activated T cells and B cells respectively. Defects in CD40 lead to hyper-IgM immunodeficiency syndrome type 3 (HIGM3) (PMID: 11675497). This is an autosomal recessive disorder that includes the inability of B cells to undergo isotype switching, a key step in the final differentiation of the humoral immune response, and an inability to mount an antibody-specific immune response.

## Notable Publications

Author	Pubmed ID	Journal	Application
Caiyun Wang	36819496	Ann Transl Med	
Beiyuan Hu	36304515	J Clin Transl Hepatol	IHC

## Storage

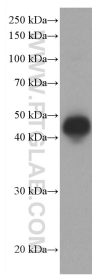
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol, pH7.3  
Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

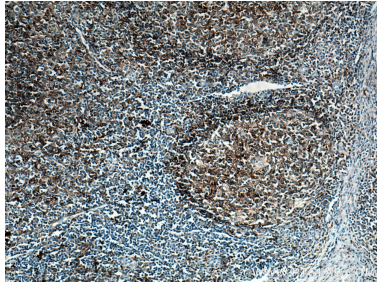
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: proteintech@ptglab.com  
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

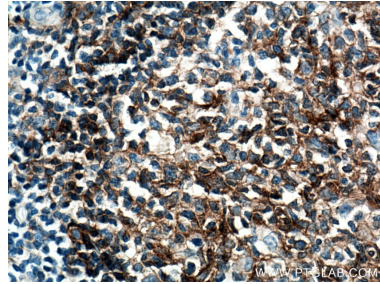
Selected Validation Data



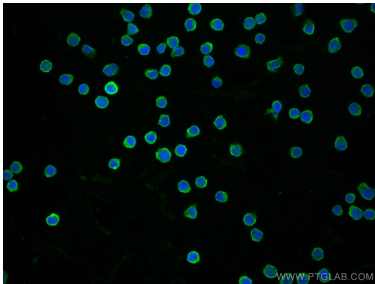
Raji cells were subjected to SDS PAGE followed by western blot with 66965-1-Ig (CD40 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



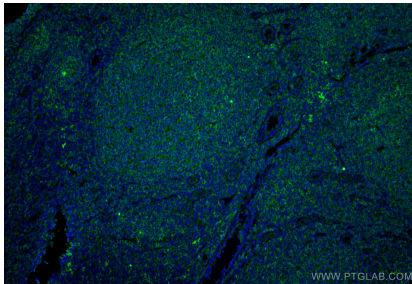
Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 66965-1-Ig (CD40 antibody) at dilution of 1:5000 (under 10x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



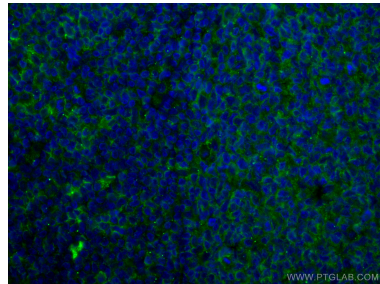
Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 66965-1-Ig (CD40 antibody) at dilution of 1:5000 (under 40x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed Ramos cells using CD40 antibody (66965-1-Ig, Clone: 2A8G5 ) at dilution of 1:400 and Multi-rAb CoraLite ® Plus 488-Goat Anti-Mouse Recombinant Secondary Antibody (H+L) (RGAM002).



Immunofluorescent analysis of (4% PFA) fixed human tonsillitis tissue using CD40 antibody (66965-1-Ig, Clone: 2A8G5 ) at dilution of 1:400 and CoraLite® 488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).



Immunofluorescent analysis of (4% PFA) fixed human tonsillitis tissue using CD40 antibody (66965-1-Ig, Clone: 2A8G5 ) at dilution of 1:400 and CoraLite® 488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).