

For Research Use Only

CD40 Monoclonal antibody

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



Basic Information

Catalog Number: 66965-1-Ig	GenBank Accession Number: BC012419	Purification Method: Protein G purification
Concentration: 1000 ug/ml	GeneID (NCBI): 958	CloneNo.: 2A8G5
Source: Mouse	ENSEMBL Gene ID: ENSG00000101017	Recommended Dilutions: WB: 1:2000-1:10000 IHC: 1:2500-1:10000 IF-P: 1:200-1:800 IF/ICC: 1:200-1:800
Isotype: IgG1	UNIPROT ID: P25942	
Immunogen Catalog Number: AG28040	Full Name: CD40 molecule, TNF receptor superfamily member 5	
	Calculated MW: 277 aa, 31 kDa	
	Observed MW: 43 kDa	

Applications

Tested Applications: WB, IHC, IF/ICC, IF-P, ELISA	Positive Controls: WB : Raji cells, Daudi cells
Cited Applications: IHC	IHC : human tonsillitis tissue, human lymphoma tissue
Species Specificity: human	IF-P : human tonsillitis tissue,
Cited Species: human	IF/ICC : Ramos cells, Raji cells
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

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

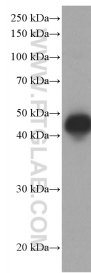
Storage

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

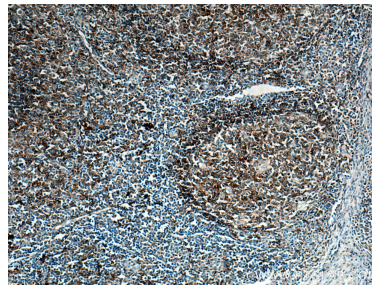
For technical support and original validation data for this product please contact:
T: 4006900926 E: Proteintech-CN@ptglab.com W: ptgcn.com

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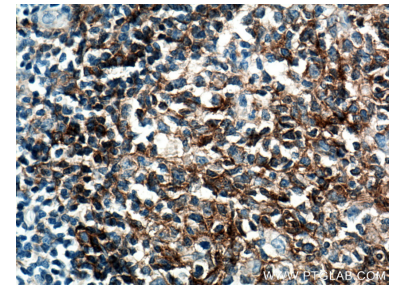
Selected Validation Data



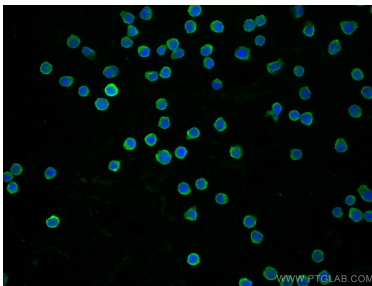
Raji cells were subjected to SDS PAGE followed by western blot with 66965-1-Ig (CD40 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



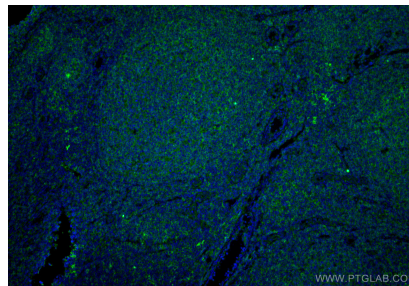
Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 66965-1-Ig (CD40 antibody) at dilution of 1:5000 (under 10x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



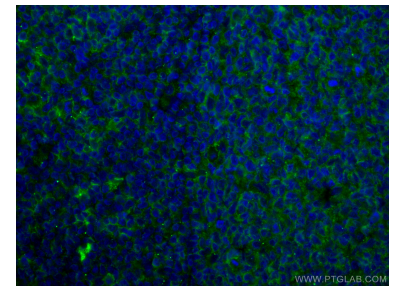
Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 66965-1-Ig (CD40 antibody) at dilution of 1:5000 (under 40x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



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).