For Research Use Only

CD40 Monoclonal antibody

Catalog Number:66965-1-Ig 3 Publications

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Basic Information

Catalog Number:
66965-1-Ig

Size:
150ul , Concentration: 1800 ug/ml by Nanodrop and 1000 ug/ml by Bradford method using BSA as the standard;

Source:
Mouse

Isotype:
IgG1

Immunogen Catalog Number:
AG28040

GenBank Accession Number:
BC012419

GeneID (NCBI):
958

ENSEMBL Gene ID:
ENSG00000101017

UNIPROT ID:
P25942

Full Name:
CD40 molecule, TNF receptor superfamily member 5

Calculated MW:
277 aa, 31 kDa

Observed MW:
43 kDa

Purification Method:
Protein G purification

CloneNo.:
2A8G5

Recommended Dilutions:
WB: 1:2000-1:10000
IHC: 1:2500-1:10000
IF-P: 1:200-1:800
IF/ICC: 1:200-1:800

Applications

Tested Applications:
WB, IHC, IF/ICC, IF-P, ELISA

Cited Applications:
WB, IHC

Species Specificity:
human

Cited Species:
human

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

Positive Controls:

WB : Raji cells, Daudi cells

IHC : human tonsillitis tissue, human lymphoma tissue

IF-P : human tonsillitis tissue,

IF/ICC : Ramos cells, Raji cells

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
Paul David	40003965	Int J Mol Sci	WB
Caiyun Wang	36819496	Ann Transl Med	
Beiyuan Hu	36304515	J Clin Transl Hepatol	IHC

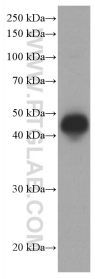
Storage

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

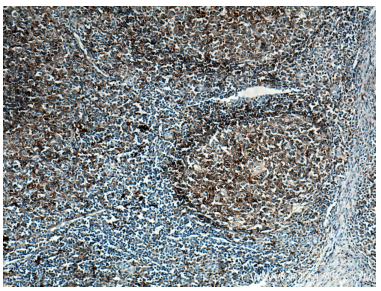
*** 20ul sizes contain 0.1% BSA

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

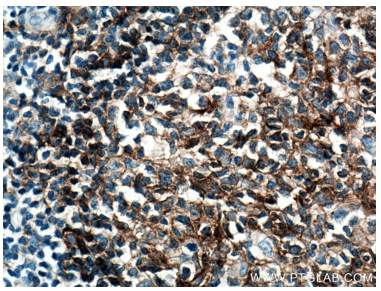
Selected Validation Data



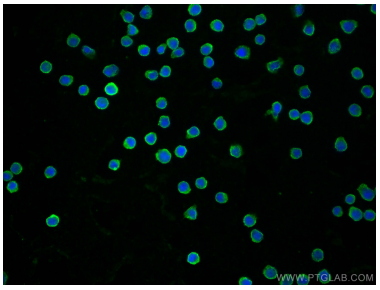
Raji cells were subjected to SDS PAGE followed by western blot with 66965-1-Ig (CD40 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



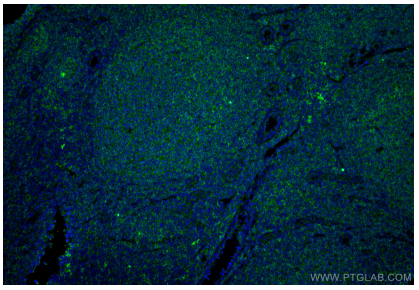
Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 66965-1-Ig (CD40 antibody) at dilution of 1:5000 (under 10x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



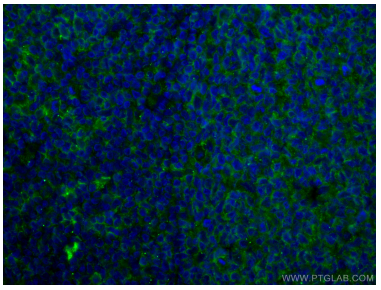
Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 66965-1-Ig (CD40 antibody) at dilution of 1:5000 (under 40x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



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).