

For Research Use Only

# CD40 Polyclonal antibody

Catalog Number: 28158-1-AP

Featured Product

7 Publications



## Basic Information

### Catalog Number:

28158-1-AP

### Size:

150ul, Concentration: 350 ug/ml by Nanodrop and 267 ug/ml by Bradford method using BSA as the standard;

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG28033

### 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:

40-45 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB 1:1000-1:8000

IHC 1:1000-1:4000

IF/ICC 1:200-1:800

## Applications

### Tested Applications:

WB, IHC, IF/ICC, ELISA

### Cited Applications:

WB, IHC

### Species Specificity:

human

### Cited Species:

human, mouse

### Positive Controls:

WB : Daudi cells, Raji cells, Ramos cells

IHC : human tonsillitis tissue,

IF/ICC : Daudi 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 |
|---------------|-----------|-----------------|-------------|
| Xueting Zhang | 34678319  | Toxicology      | WB          |
| Yaojun Peng   | 34184409  | FEBS Open Bio   | WB          |
| Wenmin Song   | 33381228  | Cardiovasc Ther | WB          |

## Storage

### Storage:

Store at -20°C. Stable for one year after shipment.

### Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

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

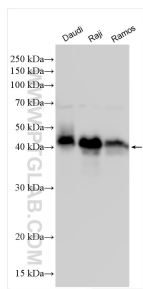
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

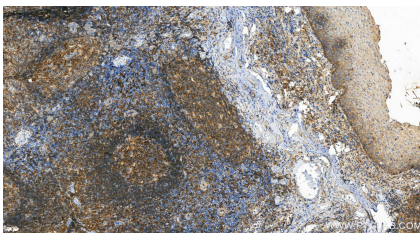
E: proteintech@ptglab.com  
W: ptglab.com

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

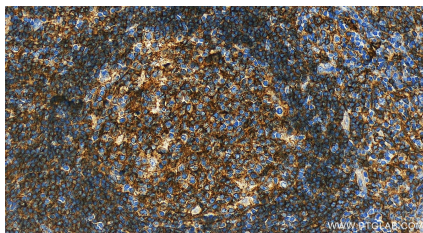
## Selected Validation Data



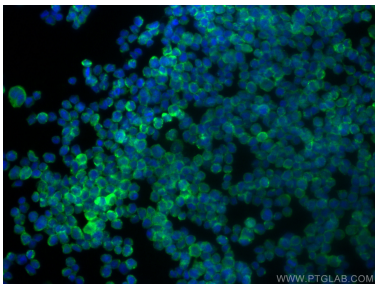
Various lysates were subjected to SDS PAGE followed by western blot with 28158-1-AP (CD40 antibody) at dilution of 1:4000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 28158-1-AP (CD40 antibody) at dilution of 1:2000 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 28158-1-AP (CD40 antibody) at dilution of 1:2000 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed Daudi cells using CD40 antibody (28158-1-AP) at dilution of 1:400 and Multi-rAb Coralite® Plus 488-Goat Anti-Rabbit Recombinant Secondary Antibody (H+L) (RGAR002).