

For Research Use Only

# CD27 Monoclonal antibody

Catalog Number: 66308-1-Ig **1 Publications**



## Basic Information

<b>Catalog Number:</b> 66308-1-Ig	<b>GenBank Accession Number:</b> BC012160	<b>Purification Method:</b> Protein G purification
<b>Size:</b> 150ul , Concentration: 1000 ug/ml by Nanodrop;	<b>GeneID (NCBI):</b> 939	<b>CloneNo.:</b> 1C1G3
<b>Source:</b> Mouse	<b>ENSEMBL Gene ID:</b> ENSG00000139193	<b>Recommended Dilutions:</b> WB: 1:5000-1:50000 IHC: 1:1000-1:4000 IF-P: 1:200-1:800 FC: 0.20 ug per 10 <sup>6</sup> cells in a 100 µl suspension
<b>Isotype:</b> IgG1	<b>UNIPROT ID:</b> P26842	
<b>Immunogen Catalog Number:</b> AG24537	<b>Full Name:</b> CD27 molecule	
	<b>Calculated MW:</b> 29 kDa	
	<b>Observed MW:</b> 50-55 kDa	

## Applications

<b>Tested Applications:</b> WB, IHC, IF-P, FC, ELISA	<b>Positive Controls:</b> <b>WB :</b> Raji cells, pig spleen tissue, Ramos cells, Daudi cells <b>IHC :</b> human tonsillitis tissue, <b>IF-P :</b> human tonsillitis tissue, <b>FC :</b> human PBMCs,
<b>Cited Applications:</b> IF	
<b>Species Specificity:</b> human, pig	
<b>Cited Species:</b> human	
<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

CD27 (also known as TNFRSF7) is a type I glycoprotein expressed on some B cells and the majority of T cells, and is a member of the tumor necrosis factor (TNF) receptor family. CD27 is required for generation and long-term maintenance of T cell immunity (PMID: 11062504). It is a receptor for CD70 (CD27L). Ligation of CD27 by CD70 induces strong ubiquitination of TRAF and the activation of both canonical and non-canonical NF-kappaB pathways, as well as the JNK pathway (PMID: 19426224). CD27 may also play a role in apoptosis through association with SIVA1.

## Notable Publications

Author	Pubmed ID	Journal	Application
Yang Liu	39231979	Nat Commun	IF

## Storage

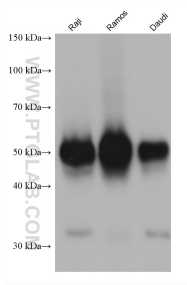
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol, pH7.3  
**Aliquoting is unnecessary for -20°C storage**

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

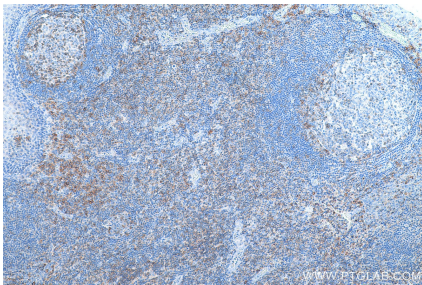
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
W: [ptglab.com](http://ptglab.com)

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

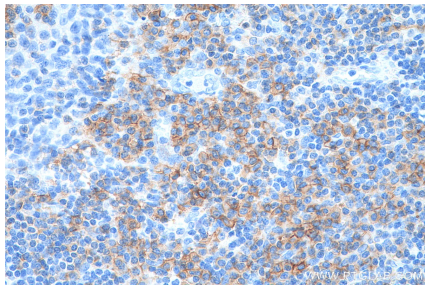
Selected Validation Data



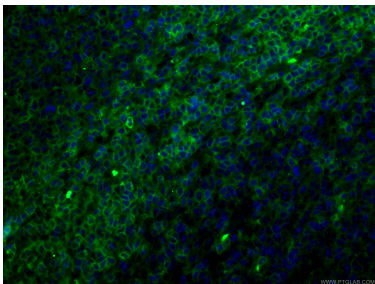
Various lysates were subjected to SDS PAGE followed by western blot with 66308-1-Ig (CD27 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



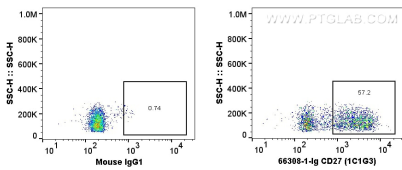
Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 66308-1-Ig (CD27 antibody) at dilution of 1:2000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



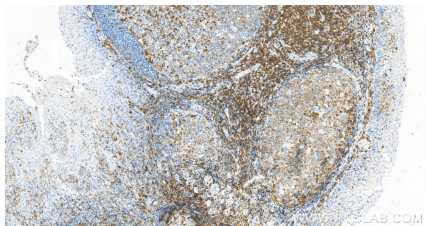
Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 66308-1-Ig (CD27 antibody) at dilution of 1:2000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



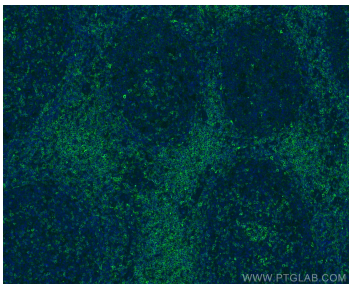
Immunofluorescent analysis of (4% PFA) fixed human tonsillitis tissue using 66308-1-Ig (CD27 antibody) at dilution of 1:100 and CoraLite488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).



1x10<sup>6</sup> human PBMCs were surface stained with 0.2 µg CD27 Monoclonal antibody (66308-1-Ig, Clone:1C1G3) or 0.2 µg Mouse IgG1 isotype control (66360-1-Ig, Clone: T1F8D3F10), and CoraLite® Plus 647-Goat Anti-Mouse Recombinant Secondary Antibody (H+L) (Cat.NO.RGAM005). Cells were not fixed.



Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 66308-1-Ig (CD27 antibody) at dilution of 1:4000 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed paraffin-embedded human tonsillitis tissue using CD27 antibody (66308-1-Ig, Clone: 1C1G3 ) at dilution of 1:400 and CoraLite®488-Conjugated Goat Anti-Mouse IgG(H+L) (SA00013-1). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).