

For Research Use Only

CD27 Monoclonal antibody

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



Basic Information

Catalog Number: 66308-1-Ig	GenBank Accession Number: BC012160	Purification Method: Protein A purification
Concentration: 1500 ug/ml	GeneID (NCBI): 939	CloneNo.: 1C1G3
Source: Mouse	ENSEMBL Gene ID: ENSG00000139193	Recommended Dilutions: WB 1:5000-1:50000 IHC 1:1000-1:4000 IF-P 1:200-1:800
Isotype: IgG1	UNIPROT ID: P26842	
Immunogen Catalog Number: AG24537	Full Name: CD27 molecule	
	Calculated MW: 29 kDa	
	Observed MW: 50-55 kDa	

Applications

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

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

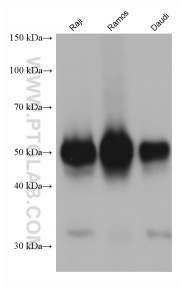
Storage

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

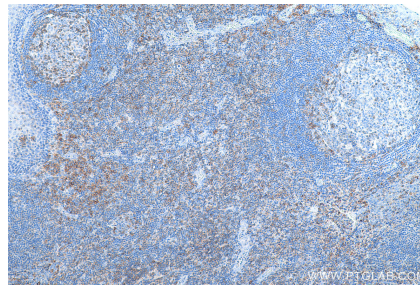
For technical support and original validation data for this product please contact:
T: 4006900926 E: Proteintech-CN@ptglab.com W: ptgcn.com

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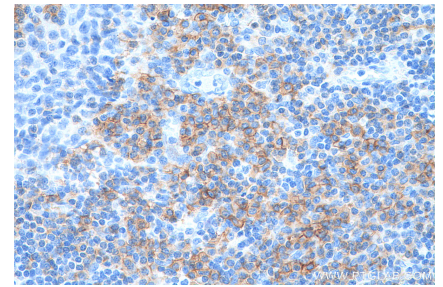
Selected Validation Data



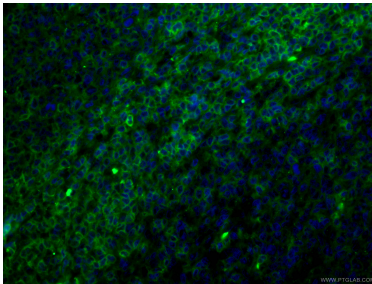
Various lysates were subjected to SDS PAGE followed by western blot with 66308-1-Ig (CD27 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



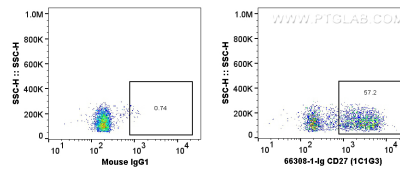
Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 66308-1-Ig (CD27 antibody) at dilution of 1:2000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



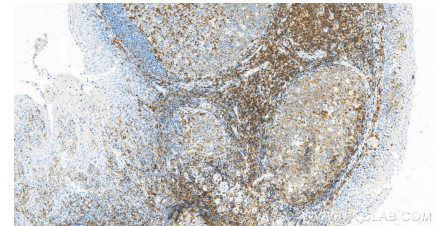
Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 66308-1-Ig (CD27 antibody) at dilution of 1:2000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



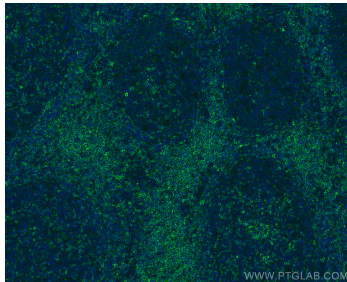
Immunofluorescent analysis of (4% PFA) fixed human tonsillitis tissue using 66308-1-Ig (CD27 antibody) at dilution of 1:100 and CoraLite488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).



1x10⁶ 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).