

For Research Use Only

# CD90 Monoclonal antibody

Catalog Number: 66766-1-Ig **38 Publications**



## Basic Information

<b>Catalog Number:</b> 66766-1-Ig	<b>GenBank Accession Number:</b> BC065559	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 150ul , Concentration: 2300 ug/ml by Nanodrop and 1000 ug/ml by Bradford method using BSA as the standard;	<b>GeneID (NCBI):</b> 7070	<b>CloneNo.:</b> 2D7D11
<b>Source:</b> Mouse	<b>UNIPROT ID:</b> P04216	<b>Recommended Dilutions:</b> WB 1:2000-1:10000 IHC 1:500-1:2000 IF-P 1:50-1:500
<b>Isotype:</b> IgG2a	<b>Full Name:</b> Thy-1 cell surface antigen	
<b>Immunogen Catalog Number:</b> AG25603	<b>Calculated MW:</b> 161 aa, 18 kDa	
	<b>Observed MW:</b> 28 kDa	

## Applications

<b>Tested Applications:</b> WB, IHC, IF-P, ELISA	<b>Positive Controls:</b>
<b>Cited Applications:</b> WB, IHC, IF	<b>WB :</b> fetal human brain tissue, rabbit brain tissue, U2OS cells, human kidney tissue, pig brain tissue, pig spleen tissue, pig colon tissue
<b>Species Specificity:</b> human, mouse, rat, pig, rabbit	<b>IHC :</b> human tonsillitis tissue, human colon cancer tissue, human gliomas tissue, human lung cancer tissue, mouse liver tissue
<b>Cited Species:</b> human, mouse, rat, pig, rabbit, bovine	<b>IF-P :</b> human tonsillitis tissue,
<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

CD90, also known as THY1, is a 25-35 kD protein that is expressed on 1-4% of human fetal liver cells, cord blood cells, and bone marrow cells. CD90 is one of the essential surface molecules expressed on human MSC from bone marrow and other sources. Activation of Thy-1 has been reported to promote T cell activation. It also affects numerous nonimmunologic biological processes, including cellular adhesion, neurite outgrowth, tumor growth, migration, and cell death.

## Notable Publications

Author	Pubmed ID	Journal	Application
Muhua Huang	34493162	Pharm Biol	IF
Yunan Wang	36370625	Tissue Cell	IF
Qi Li	32125888	Cell Reprogram	

## Storage

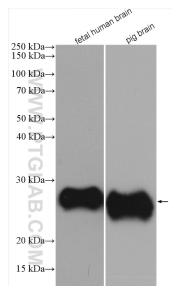
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol, pH7.3  
Aliquoting is unnecessary for -20°C storage

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

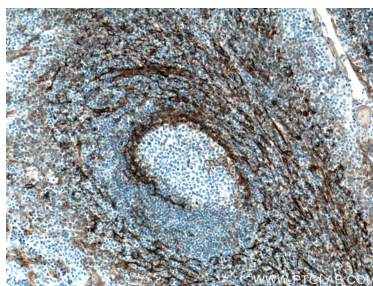
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: proteintech@ptglab.com  
W: ptglab.com

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

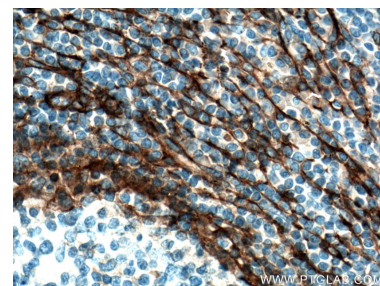
## Selected Validation Data



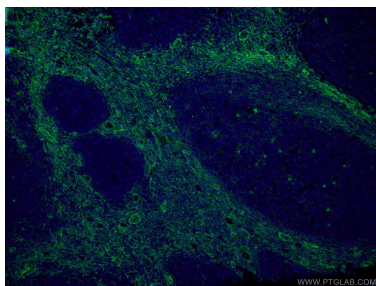
Various lysates were subjected to SDS PAGE followed by western blot with 66766-1-Ig (CD90 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



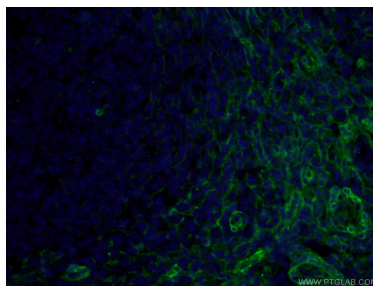
Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 66766-1-Ig (CD90 antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



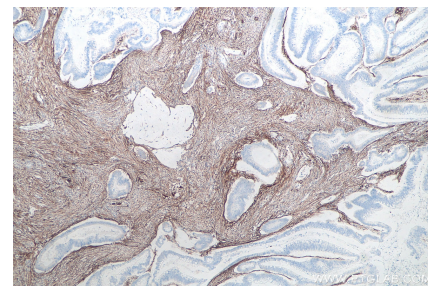
Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 66766-1-Ig (CD90 antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed human tonsillitis tissue using 66766-1-Ig (CD90 antibody) at dilution of 1:100 and Alexa Fluor 488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).



Immunofluorescent analysis of (4% PFA) fixed human tonsillitis tissue using 66766-1-Ig (CD90 antibody) at dilution of 1:100 and Alexa Fluor 488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).



Immunohistochemical analysis of paraffin-embedded human colon cancer tissue slide using 66766-1-Ig (CD90 antibody) at dilution of 1:3900 (under 4x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).