

For Research Use Only

# CD90 Polyclonal antibody

Catalog Number: 27178-1-AP

9 Publications



## Basic Information

### Catalog Number:

27178-1-AP

### Size:

150ul, Concentration: 500 ug/ml by Nanodrop;

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG25603

### GenBank Accession Number:

BC065559

### GeneID (NCBI):

7070

### UNIPROT ID:

P04216

### Full Name:

Thy-1 cell surface antigen

### Calculated MW:

161 aa, 18 kDa

### Observed MW:

26 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB: 1:2000-1:10000

IHC: 1:50-1:500

## Applications

### Tested Applications:

WB, IHC, ELISA

### Cited Applications:

IF

### Species Specificity:

human, mouse, rat, pig

### Cited Species:

human, mouse, rat

**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:** pig brain tissue, mouse brain tissue, rat brain tissue

**IHC:** human colon cancer tissue, human lung cancer tissue, mouse spleen tissue, mouse brain tissue

## 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
Huiling Chen	35411597	Neurogastroenterol Motil	IF
Wenkai Wang	40169595	Nat Commun	IF
Xinyu Zhang	40073802	Transl Oncol	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

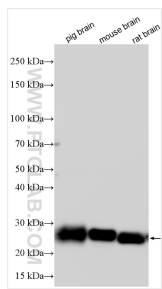
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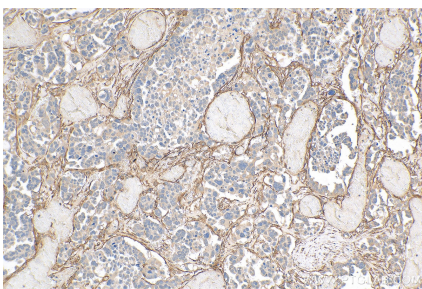
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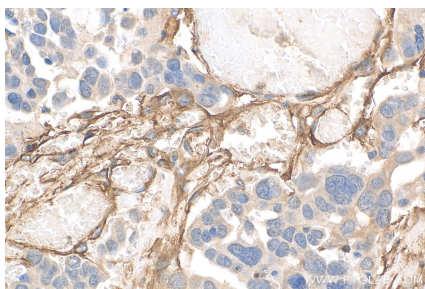
## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 27178-1-AP (CD90 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human colon cancer tissue slide using 27178-1-AP (CD90 / Thy1 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human colon cancer tissue slide using 27178-1-AP (CD90 / Thy1 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).