

For Research Use Only

# Angiopoietin 1 Polyclonal antibody

Catalog Number: 27093-1-AP

4 Publications



## Basic Information

### Catalog Number:

27093-1-AP

### Size:

150ul, Concentration: 450 ug/ml by Nanodrop;

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG25786

### GenBank Accession Number:

BC152411

### GeneID (NCBI):

284

### UNIPROT ID:

Q15389

### Full Name:

angiopoietin 1

### Calculated MW:

498 aa, 58 kDa

### Observed MW:

70 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB 1:500-1:2000

IHC 1:50-1:500

IF/ICC 1:200-1:800

## Applications

### Tested Applications:

WB, IHC, IF/ICC, ELISA

### Cited Applications:

WB

### Species Specificity:

human, mouse, rat

### 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:** HUVEC cells, HeLa cells, U-87 MG cells, mouse heart tissue, rat heart tissue, mouse lung tissue, rat lung tissue

**IHC:** human colon cancer tissue,

**IF/ICC:** HUVEC cells,

## Background Information

Angiopoietin 1 is a 70-kDa secreted glycoprotein generated from vascular mural cells, pericytes, and certain other cells. Angiopoietin 1 participates in vascular differentiation through angiogenesis, which is the process of the growth and remodelling of existing vessels. Angiopoietin 1 is also involved in the maintenance and turnover of blood vessels in mature animals. Angiopoietin 1 binds to and activates the TEK/TIE2 receptor by inducing its dimerization and tyrosine phosphorylation, playing an important role in the regulation of angiogenesis. Overexpression of Angiopoietin 1 has been proven to occur in malignant glioblastoma, neuroblastoma, non-small cell lung cancer, and other tumors.

## Notable Publications

Author	Pubmed ID	Journal	Application
Hongyan Li	39866777	Mater Today Bio	WB
Siavash Beikoghli Kalkhoran	39472324	Basic Res Cardiol	WB
Hyung Duk Kim	38155524	Aging Cell	WB

## 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

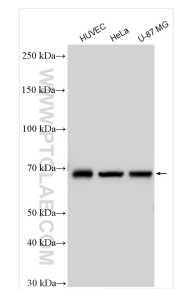
For technical support and original validation data for this product please contact:

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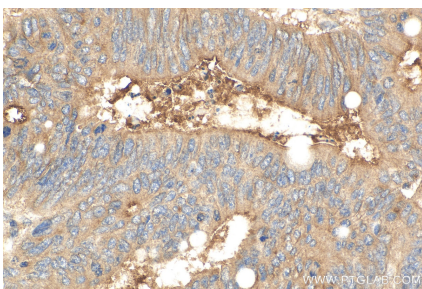
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
W: [ptglab.com](http://ptglab.com)

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

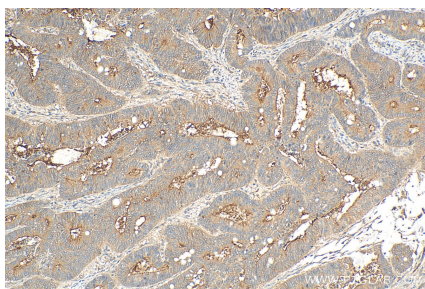
Selected Validation Data



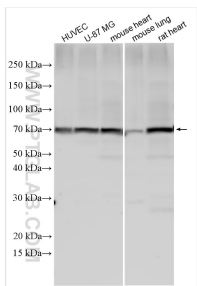
Various lysates were subjected to SDS PAGE followed by western blot with 27093-1-AP (Angiopoietin 1 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



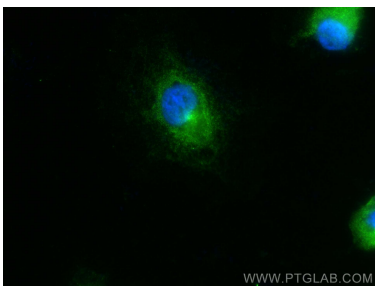
Immunohistochemical analysis of paraffin-embedded human colon cancer tissue slide using 27093-1-AP (Angiopoietin 1 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human colon cancer tissue slide using 27093-1-AP (Angiopoietin 1 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Various lysates were subjected to SDS PAGE followed by western blot with 27093-1-AP (Angiopoietin 1 antibody) at dilution of 1:800 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of (-20°C Methanol) fixed HUVEC cells using Angiopoietin 1 antibody (27093-1-AP) at dilution of 1:400 and CoraLite® 488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (SA00013-2).