

For Research Use Only

Angiopoietin 1 Polyclonal antibody

Catalog Number: 27093-1-AP

4 Publications



Basic Information

Catalog Number:

27093-1-AP

Concentration:

450 ug/ml

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

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

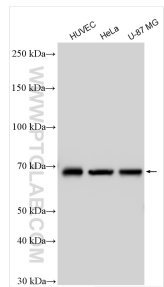
T: 4006900926

E: Proteintech-CN@ptglab.com

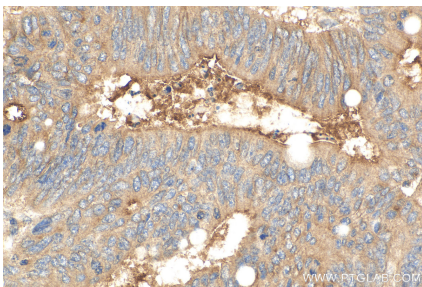
W: ptgcn.com

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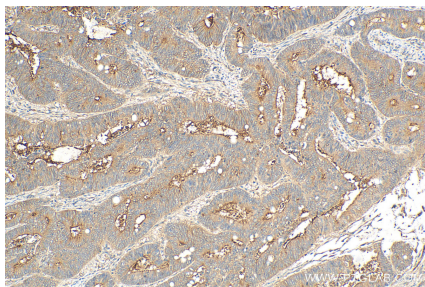
Selected Validation Data



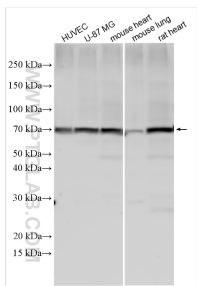
Various lysates were subjected to SDS PAGE followed by western blot with 27093-1-AP (Angiopoietin 1 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



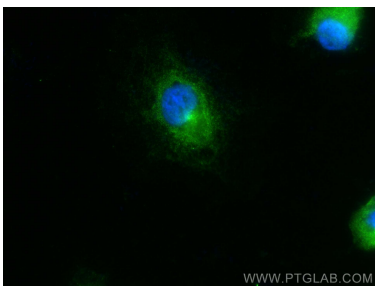
Immunohistochemical analysis of paraffin-embedded human colon cancer tissue slide using 27093-1-AP (Angiopoietin 1 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



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).