

For Research Use Only

# ANGPTL4 Polyclonal antibody

Catalog Number: 18374-1-AP

Featured Product

46 Publications



## Basic Information

### Catalog Number:

18374-1-AP

### Size:

150ul, Concentration: 400 ug/ml by Nanodrop;

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG13237

### GenBank Accession Number:

BC023647

### GeneID (NCBI):

51129

### UNIPROT ID:

Q9BY76

### Full Name:

angiopoietin-like 4

### Calculated MW:

45 kDa

### Observed MW:

45-50 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB: 1:500-1:1000

IP: 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate

IHC: 1:50-1:500

IF/ICC: 1:50-1:500

## Applications

### Tested Applications:

WB, IHC, IF/ICC, IP, ELISA

### Cited Applications:

WB, IHC, IF, IP

### Species Specificity:

human, mouse, rat

### Cited Species:

human, mouse, rat

### Positive Controls:

WB: mouse heart tissue, mouse kidney tissue, HEK-293 cells, rat heart tissue

IP: mouse heart tissue,

IHC: human kidney tissue, human oesophagus cancer tissue, human heart tissue, human ovary tissue

IF/ICC: NIH/3T3 cells, HT-29 cells, HEK-293 cells

**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

Angiopoietin-like protein 4 (ANGPTL4), a member of the angiopoietin-like protein subfamily, is a secretory protein that functions as an important modulator of glucose and lipid metabolism. ANGPTL4 inhibits lipoprotein lipase (LPL)-dependent lipolysis thereby limiting the uptake of free fatty acids. Overexpression of ANGPTL4 results in hypertriglyceridemia, while ANGPTL4 deficiency suppresses foam formation in macrophages and protects against atherosclerosis. ANGPTL4 may play a role in several cancers and it also has been shown to prevent the metastatic process by inhibiting vascular activity as well as tumor cell motility and invasiveness. Decreased expression of this protein has been associated with type 2 diabetes. ANGPTL4 has three isoforms, 45 kDa, 41 kDa and 27 kDa.

## Notable Publications

Author	Pubmed ID	Journal	Application
Akrit Sodhi	31545295	J Clin Invest	IP
Xinyue Yang	31494661	Med Sci Monit	WB
Yue-Hua Jiang	33039628	J Ethnopharmacol	

## 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

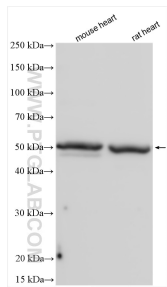
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

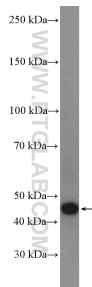
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
W: [ptglab.com](http://ptglab.com)

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

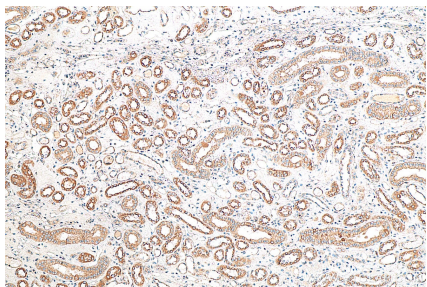
Selected Validation Data



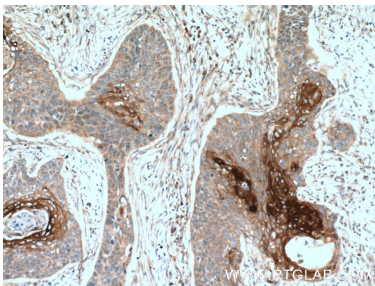
Various lysates were subjected to SDS PAGE followed by western blot with 18374-1-AP (ANGPTL4 antibody) at dilution of 1:800 incubated at room temperature for 1.5 hours.



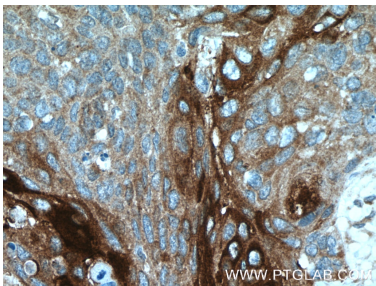
mouse kidney tissue were subjected to SDS PAGE followed by western blot with 18374-1-AP (ANGPTL4 Antibody) at dilution of 1:600 incubated at room temperature for 1.5 hours.



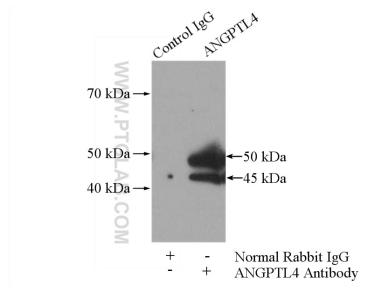
Immunohistochemical analysis of paraffin-embedded human kidney tissue slide using 18374-1-AP (ANGPTL4 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



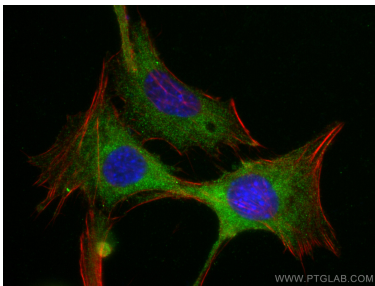
Immunohistochemical analysis of paraffin-embedded human oesophagus cancer tissue slide using 18374-1-AP (ANGPTL4 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



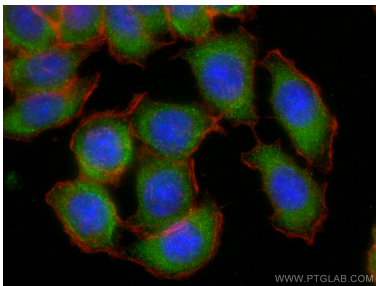
Immunohistochemical analysis of paraffin-embedded human oesophagus cancer tissue slide using 18374-1-AP (ANGPTL4 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



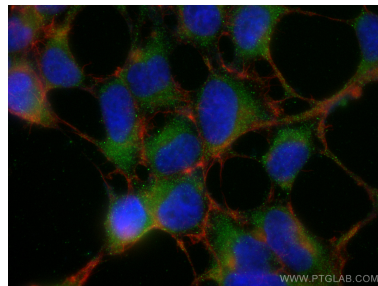
IP result of anti-ANGPTL4 (IP:18374-1-AP, 4ug; Detection:18374-1-AP 1:500) with mouse heart tissue lysate 4000ug.



Immunofluorescent analysis of (-20°C Ethanol) fixed NIH/3T3 cells using ANGPTL4 antibody (18374-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L), CL594-Phalloidin (red).



Immunofluorescent analysis of (-20°C Ethanol) fixed HT-29 cells using ANGPTL4 antibody (18374-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L), CL594-Phalloidin (red).



Immunofluorescent analysis of (-20°C Ethanol) fixed HEK-293 cells using ANGPTL4 antibody (18374-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L), CL594-Phalloidin (red).