

For Research Use Only

# ANGPTL4 Polyclonal antibody

Catalog Number: 31497-1-AP



## Basic Information

<b>Catalog Number:</b> 31497-1-AP	<b>GenBank Accession Number:</b> BC023647	<b>Purification Method:</b> Antigen affinity Purification
<b>Size:</b> 150ul , Concentration: 530 ug/ml by Nanodrop;	<b>GeneID (NCBI):</b> 51129	<b>Recommended Dilutions:</b> WB: 1:500-1:1000 IHC: 1:50-1:500 IF/ICC: 1:400-1:1600
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> Q9BY76	
<b>Isotype:</b> IgG	<b>Full Name:</b> angiopoietin-like 4	
<b>Immunogen Catalog Number:</b> AG31212	<b>Calculated MW:</b> 45 kDa	
	<b>Observed MW:</b> 60 kDa	

## Applications

**Tested Applications:**  
WB, IHC, IF/ICC, ELISA

**Species Specificity:**  
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 :** mouse heart tissue, HEK-293 cells, rat heart tissue

**IHC :** human placenta tissue,

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

## 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.

## 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**

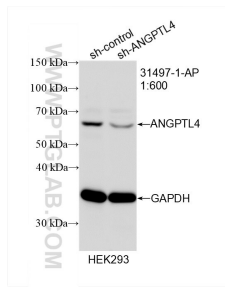
For technical support and original validation data for this product please contact:

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

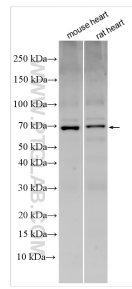
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
W: [ptglab.com](http://ptglab.com)

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

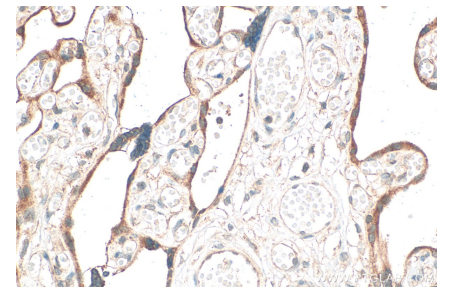
## Selected Validation Data



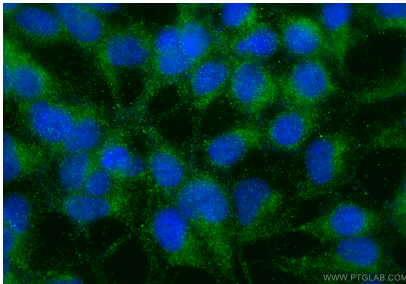
WB result of ANGPTL4 antibody (31497-1-AP; 1:600; incubated at room temperature for 1.5 hours) with sh-Control and sh-ANGPTL4 transfected HEK-293 cells.



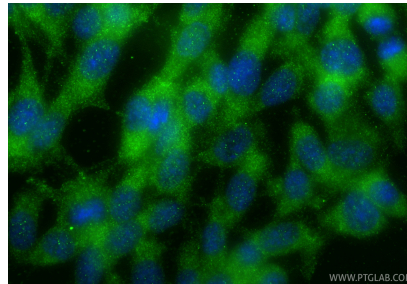
Various lysates were subjected to SDS PAGE followed by western blot with 31497-1-AP (ANGPTL4 antibody) at dilution of 1:500 incubated at room temperature for 1.5 hours.



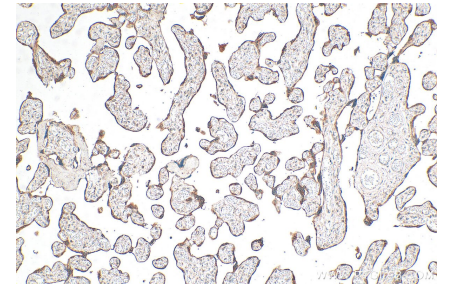
Immunohistochemical analysis of paraffin-embedded human placenta tissue slide using 31497-1-AP (ANGPTL4 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



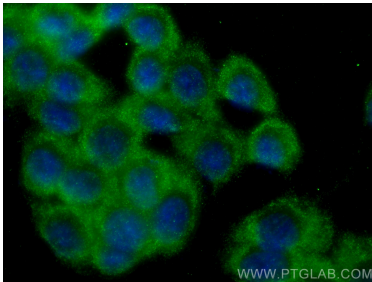
Immunofluorescent analysis of (-20°C Ethanol) fixed HEK-293 cells using ANGPTL4 antibody (31497-1-AP) at dilution of 1:800 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2).



Immunofluorescent analysis of (-20°C Ethanol) fixed NIH/3T3 cells using ANGPTL4 antibody (31497-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2).



Immunohistochemical analysis of paraffin-embedded human placenta tissue slide using 31497-1-AP (ANGPTL4 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (-20°C Ethanol) fixed HT-29 cells using ANGPTL4 antibody (31497-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2).