

For Research Use Only

Angptl4 Polyclonal antibody

Catalog Number: 51109-1-AP

1 Publications



Basic Information

Catalog Number: 51109-1-AP	GenBank Accession Number: BC078944	Purification Method: Antigen affinity purification
Size: 150ul, Concentration: 100 ug/ml by Nanodrop;	GeneID (NCBI): 362850	Recommended Dilutions: WB 1:500-1:1000 IHC 1:50-1:500
Source: Rabbit	UNIPROT ID: Q6TMA8	
Isotype: IgG	Full Name: angiopoietin-like 4	
Immunogen Catalog Number: AG0613	Calculated MW: 405 aa, 45 kDa	

Applications

Tested Applications: WB, IHC, ELISA	Positive Controls:
Cited Applications: IF	WB: mouse liver tissue,
Species Specificity: human, mouse, rat	IHC: human kidney tissue, rat kidney tissue, mouse kidney tissue
Cited Species: human, mouse	

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 functional domains: the signal peptide, the coiled-coil (N-terminal chain, CCD), and the fibrinogen-like (C-terminal chain, FLD) domains. ANGPTL4 is a glycosylated secreted protein (fANGPTL4, 45-65 kDa). fANGPTL4 is then rapidly post-translationally cleaved into an N-terminal coiled-coil domain (nANGPTL4, ~ 15 kDa) and a C-terminal fibrinogen-like domain (cANGPTL4, ~ 35 kDa) (PMID: 37300585).

Notable Publications

Author	Pubmed ID	Journal	Application
Xiaojing Liu	39776814	Theranostics	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

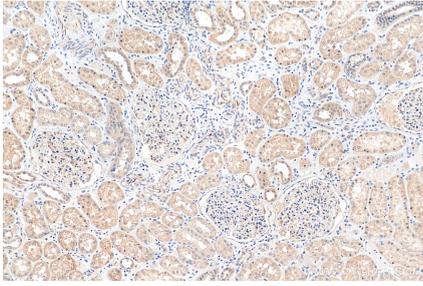
For technical support and original validation data for this product please contact:

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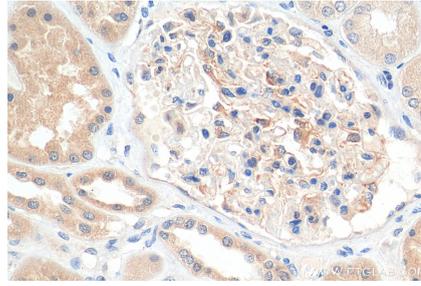
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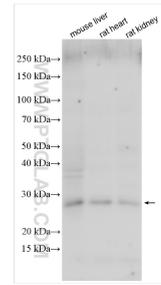
Selected Validation Data



Immunohistochemical analysis of paraffin-embedded human kidney tissue slide using 51109-1-AP (Angptl4 antibody) at dilution of 1:50 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human kidney tissue slide using 51109-1-AP (Angptl4 antibody) at dilution of 1:50 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Various lysates were subjected to SDS PAGE followed by western blot with 51109-1-AP (Angptl4 antibody) at dilution of 1:800 incubated at room temperature for 1.5 hours.