

Product datasheet for **TA336910**

Angiopoietin like 4 (ANGPTL4) Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	IF, WB
Recommended Dilution:	WB: 2 ug/ml, IF: 1:100
Reactivity:	Human, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	Synthetic peptide made to an internal sequence of human ANGPTL4 (within residues 150-250) [UniProt Q9BY76].
Formulation:	PBS, 0.05% Sodium Azide. Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Concentration:	lot specific
Purification:	Immunogen affinity purified
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Gene Name:	angiopoietin like 4
Database Link:	NP_647475 Entrez Gene 57875 Mouse Entrez Gene 51129 Human Q9BY76



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Background:

Angiotensin-related protein 4 (ANGPTL4), also known as angiotensin-like protein 4, hepatic fibrinogen/angiotensin-related protein, ARP4, HFARP, PGAR, NL2, FIAF, pp1158, and ANGPTL2, stops proliferation, movement, and tubule formation of endothelial cells and helps to prevent vascular leaking. ANGPTL4 is critical for regulation of glucose homeostasis and insulin sensitivity. The ANGPTL4 protein is a hormone that controls lipid metabolism and helps to regulate apoptosis. ANGPTL4 is characterized by hypoxia-induced expression in endothelial cells. During periods of hypoxia, ANGPTL4 is found in high levels in the sub-endothelial extracellular matrix, and the increased presence of ANGPTL4 hinders the adhesion of the endothelial cells. Many researchers believe ANGPTL4 can inhibit tumor motility and invasiveness as well as regulate angiogenesis. ANGPTL4 is a member of the angiotensin/angiotensin-like gene family and is found in high levels in the placenta, heart, liver, muscle, pancreas, and lungs. Lower levels of ANGPTL4 can be found in the brain and kidney. Researchers have found that increasing levels of ANGPTL4 in patients with breast cancer can prevent further cancer movement and growth as ANGPTL4 stops the tumor's ability to adhere (PMID: 21860410). Other researchers, however, believe higher levels of ANGPTL4 actually help colorectal cancer metastasize (PMID: 21937683). A third group of research indicates that screening for ANGPTL4 could help determine the origin of clear-cell carcinomas (PMID: 20454689).

Synonyms:

ANGPTL2; ARP4; FIAF; HARP; HFARP; NL2; PGAR; pp1158; TGQTL; UNQ171

Note:

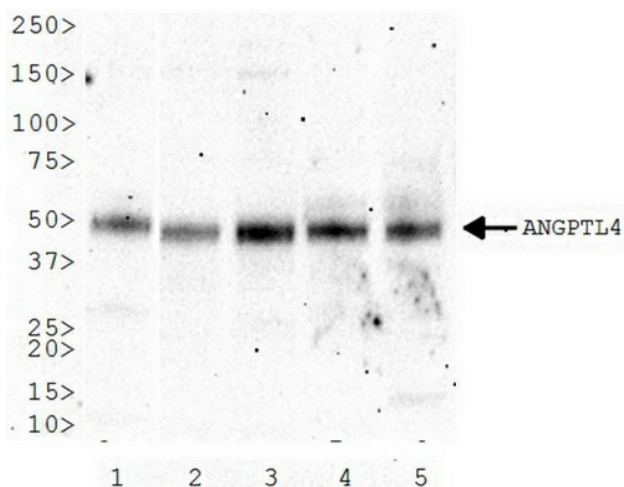
This ANGPTL4 antibody is useful for Immunocytochemistry/Immunofluorescence and Western blot, where a band is observed ~48 kDa in multiple human tissues and 3T3-L1 cell lysates. In ICC/IF, vesicular staining was observed in U2OS cells.

Protein Families:

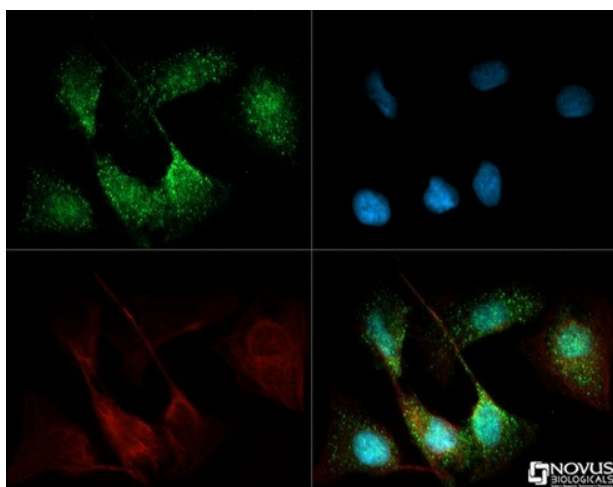
Druggable Genome, Secreted Protein

Protein Pathways:

PPAR signaling pathway

Product images:

Western Blot: ANGPTL4 Antibody TA336910 - WB analysis of ANGPTL4 in 1) Human pancreas 2) Human lung 3) Human lymph node 4) Human adipose and 5) Human breast cancer lysate.



Immunocytochemistry/Immunofluorescence: ANGPTL4 Antibody TA336910 - ANGPTL4 antibody was tested in U2OS cells with Dylight 488 (green). Nuclei and alpha-tubulin were counterstained with DAPI (blue) and Dylight 550 (red).