**ANGPTL4 Antibody (Center)**
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP9207c

### Specification

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### ANGPTL4 Antibody (Center) - Additional Information

**Gene ID** 51129

**Other Names**
Angiopoietin-related protein 4, Angiopoietin-like protein 4, Hepatic fibrinogen/angiopoietin-related protein, HFARP, ANGPTL4, ARP4, HFARP, PGAR

**Target/Specificity**
This ANGPTL4 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 138-167 amino acids from the Central region of human ANGPTL4.

**Dilution**
- FC~1:25
- WB~1:1000
- IHC-P~1:50~100

**Format**
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

**Storage**
Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**
ANGPTL4 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

### ANGPTL4 Antibody (Center) - Protein Information

Overlay histogram showing A549 cells stained with AP9207c (green line). The cells were fixed with 2% paraformaldehyde (10 min) and then permeabilized with 90% methanol for 10 min. The cells were then incubated in 2% bovine serum albumin to block non-specific protein-protein interactions followed by the antibody (AP9207c, 1:25 dilution) for 60 min at 37°C. The secondary antibody used was Goat-Anti-Rabbit IgG, DyLight® 488 Conjugated Highly Cross-Adsorbed(OH191631) at 1/200 dilution for 40 min at 37°C. Isotype control antibody (blue line) was rabbit IgG (1μg/1x10^6 cells) used under the same conditions. Acquisition of >10,000 events was performed.

All lanes : Anti-ANGPTL4 Antibody (Center) at 1:1000 dilution Lane 1: human skeletal muscle

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Name ANGPTL4

Synonyms ARP4, HFARP, PGAR

Function
Protein with hypoxia-induced expression in endothelial cells. May act as a regulator of angiogenesis and modulate tumorigenesis. Inhibits proliferation, migration, and tubule formation of endothelial cells and reduces vascular leakage. May exert a protective function on endothelial cells through an endocrine action. It is directly involved in regulating glucose homeostasis, lipid metabolism, and insulin sensitivity. In response to hypoxia, the unprocessed form of the protein accumulates in the subendothelial extracellular matrix (ECM). The matrix-associated and immobilized unprocessed form limits the formation of actin stress fibers and focal contacts in the adhering endothelial cells and inhibits their adhesion. It also decreases motility of endothelial cells and inhibits the sprouting and tube formation (By similarity).

Cellular Location
Secreted. Secreted, extracellular space, extracellular matrix Note=The unprocessed form interacts with the extracellular matrix This may constitute a dynamic reservoir, a regulatory mechanism of the bioavailability of ANGPTL4 (By similarity).

Tissue Location
Expressed at high levels in the placenta, heart, liver, muscle, pancreas and lung but expressed poorly in the brain and kidney.

ANGPTL4 Antibody (Center) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytometry
- Cell Culture

ANGPTL4 Antibody (Center) - Background

ANGPTL4 is a member of the angiopoietin/angiopoietin-like gene family and encodes a glycosylated, secreted protein with a fibrinogen C-terminal domain. This protein is induced under hypoxic conditions in endothelial cells and is the target of peroxisome proliferation activators. The encoded protein is a serum hormone directly involved in regulating glucose homeostasis, lipid metabolism, and insulin sensitivity and also acts as an apoptosis survival factor for vascular endothelial cells. The encoded protein 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 Antibody (Center) - References

Sonnenburg,W.K., et.al, J. Lipid Res. 50 (12), 2421-2429 (2009)

ANGPTL4 Antibody (Center) - Citations

- The downregulation of ANGPTL4 inhibits the migration and proliferation of tongue squamous cell carcinoma.
- Establishment of monoclonal HCC cell lines with organ site-specific tropisms.