

Rabbit anti-Human, mouse ANGPTL4 Polyclonal Antibody | anti-ANGPTL4 antibody

ANGPTL4 Antibody (Center)

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA283653	Rabbit	Human, mouse	ELISA, Immunohistochemistry, Western Blot, Flow Cytometry, Functional Assay

PRODUCT SYNONYMS

ANGPTL4; Polyclonal Antibody; ANGPTL4 Antibody (Center); Angiopoietin-related protein 4; Angiopoietin-like protein 4; Hepatic fibrinogen/angiopoietin-related protein; HFARP; ARP4; PGAR; anti-ANGPTL4 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, mouse
Clonality	Polyclonal
Isotype	Rabbit Ig
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.
Purity/Purification	This antibody is purified through a protein A column, followed by peptide affinity purification.
Form/Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide.
Sequence Positions	138-167
Sequence Length	368
Applicable Applications for anti-ANGPTL4 antibody	ELISA, IHC (Immunohistochemistry), WB (Western Blot), FCM/FACS (Flow Cytometry)
Tissue Location	Expressed at high levels in the placenta, heart, liver, muscle, pancreas and lung but expressed poorly in the brain and kidney
Function	rotein 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).
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 2 weeks. For long term storage store at -20 degree C in small aliquots to prevent freeze-thaw cycles.

IMAGES



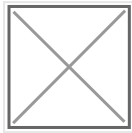
Application Data

All lanes : Anti-ANGPTL4 Antibody (Center) at 1:1000 dilution Lane 1: human skeletal muscle lysate Lane 2: human liver lysate Lysates/proteins at 20 ug per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 45 kDa Blocking/Dilution buffer: 5% NFDm/TBST.



Application Data

Overlay histogram showing A549 cells stained with AAA283653 (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 (AAA283653, 1:25 dilution) for 60 min at 37 degree 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 degree C. Isotype control antibody (blue line) was rabbit IgG (1ug/1x106 cells) used under the same conditions. Acquisition of > 10, 000 events was performed.



IHC (Immunohistochemistry)

Formalin-fixed and paraffin-embedded human skeletal muscle reacted with ANGPTL4 Antibody (Center), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.

ADDITIONAL INFORMATION

Related Product Information for anti-ANGPTL4 antibody	ANGPTL4 is a member of the angiotensinogen/angiotensin-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.
Product Categories/Family for anti-ANGPTL4 antibody	Cancer; Cardiovascular; Metabolism; Signal transduction
References	Maxwell,T.J., et.al., Int J Mol Sci 11 (1), 370-385 (2010) Legry,V., et.al, J. Clin. Endocrinol. Metab. 94 (12), 5070-5077 (2009) Sonnenburg,W.K., et.al, J. Lipid Res. 50 (12), 2421-2429 (2009)

NCBI AND UNIPROT INFORMATION

NCBI GI #	89264696
NCBI GeneID	51129
NCBI Accession #	NP_001034756.1; NP_647475.1
NCBI GenBank Nucleotide #	NM_001039667.2
UniProt Accession #	Q9BY76; Q53HQ6; Q53HU1; Q6UXN0; Q9HBV4; Q9NZU4; Q9Y5B3; A8MY84; B4E089; D6W670; F5H0I2
Molecular Weight	45214
NCBI Official Full Name	angiotensinogen-related protein 4 isoform b
NCBI Official Synonym Full Names	angiotensinogen-like 4
NCBI Official Symbol	ANGPTL4
NCBI Official Synonym Symbols	NL2; ARP4; FIAF; HARP; PGAR; HFARP; TGQTL; UNQ171; pp1158; ANGPTL2
NCBI Protein Information	angiotensinogen-related protein 4

UniProt Protein Name	Angiopoietin-related protein 4
UniProt Gene Name	ANGPTL4
UniProt Synonym Gene Names	ARP4; HFARP; PGAR; HFARP
UniProt Entry Name	ANGL4_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/angptl4-antibody-immunohistochemistry-western-blot-flow-cytometry-elisa/283653>