ANGPTL4 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	ANGPTL4, Polyclonal Antibody
Full Product Name	ANGPTL4 Antibody, FITC Conjugated
Product Gene Name	anti-ANGPTL4 antibody
Product Synonym Names	Angiopoietin-related protein 4 (Angiopoietin-like protein 4) (Hepatic fibrinogen/angiopoietin-related protein) (HFARP); ANGPTL4; ARP4 HFARP PGAR
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Liquid Preservative: 0.03% Proclin 300 Constituents: 50% Glycerol, 0.01M PBS, pH 7.4
Purity/Purification	>95%, Antigen Affinity Purified & Affinity Purified
Preparation and Storage	Upon receipt, store at -20 degree C or -80 degree C. Avoid repeated freeze.
Matching Pairs	Unconjugated Antibody: ANGPTL4 (MBS7135030) FITC Conjugated Antibody: ANGPTL4 (MBS7135032)
Molecular Weight	406
OMIM	gene 615881
3D Structure	ModBase 3D Structure for Q9BY76
Immunogen	Recombinant Human Trefoil factor 3 protein (26-406AA)
Immunogen Species	Human
Conjugate	FITC
Product Categories/Family for anti-ANGPTL4 antibody	Signal Transduction
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-ANGPTL4 antibody	ELISA (EIA)
Related Product Information for anti-ANGPTL4 antibody	MBS7135032 is an antibody targeting ANGPTL4. Also known as ANGPTL4 Antibody, FITC Conjugated. Reactive in Human. Host: Rabbit.
Other Notes	Small volumes of anti-ANGPTL4 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for ANGPTL4. It may not necessarily be applicable to this product.

NCBI GI #	25008123

NCBI GeneID	51129
NCBI Accession #	Q9BY76.2
UniProt Primary Accession #	Q9BY76
UniProt Secondary Accession #	Q53HQ6; Q53HU1; Q6UXN0; Q9HBV4; Q9NZU4; Q9Y5B3; A8MY84; B4E089; D6W670; F5H0I2
UniProt Related Accession #	Q9BY76
NCBI Official Full Name	Angiopoietin-related protein 4
NCBI Official Synonym Full Names	angiopoietin-like 4
NCBI Official Symbol	ANGPTL4
NCBI Official Synonym Symbols	NL2; ARP4; FIAF; HARP; PGAR; HFARP; TGQTL; UNQ171; pp1158; ANGPTL2
UniProt Protein Name	Angiopoietin-related protein 4
UniProt Synonym Protein Names	Angiopoietin-like protein 4; Hepatic fibrinogen/angiopoietin-related protein; HFARP
Protein Family	Angiopoietin-related protein
UniProt Gene Name	ANGPTL4
UniProt Synonym Gene Names	ARP4; HFARP; PGAR; HFARP
UniProt Entry Name	ANGL4_HUMAN
NCBI Protein Information	angiopoietin-related protein 4; fasting-induced adipose factor; PPARG angiopoietin related protein; hepatic angiopoietin-related protein; hepatic fibrinogen/angiopoietin-related protein; peroxisome proliferator-activated receptor (PPAR) gamma induced angi
NCBI Summary for ANGPTL4	This gene encodes a glycosylated, secreted protein containing a C-terminal fibrinogen domain. The encoded protein is induced by peroxisome proliferation activators and functions as a serum hormone that regulates glucose homeostasis, lipid metabolism, and insulin sensitivity. This protein can also act as an apoptosis survival factor for vascular endothelial cells and can prevent metastasis by inhibiting vascular growth and tumor cell invasion. The C-terminal domain may be proteolytically-cleaved from the full-length secreted protein. Decreased expression of this gene has been associated with type 2 diabetes. Alternative splicing results in multiple transcript variants. This gene was previously referred to as ANGPTL2 but has been renamed ANGPTL4. [provided by RefSeq, Sep 2013]
UniProt Comments for ANGPTL4	ANGPTL4: 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. Protein type: Secreted, signal peptide; Secreted; Apoptosis; Extracellular matrix; Inhibitor Chromosomal Location of Human Ortholog: 19p13.3 Cellular Component: extracellular space; proteinaceous extracellular matrix; extracellular region Molecular Function: enzyme inhibitor activity; protein binding Biological Process: positive regulation of angiogenesis; response to hypoxia; negative regulation of lipoprotein lipase activity; angiogenesis; cellular lipid metabolic process; cell differentiation; protein homooligomerization; negative regulation of apoptosis Disease: Plasma Triglyceride Level Quantitative Trait Locus
Research Articles on ANGPTL4	**1.** These studies reveal that modifying sialylation of the soluble glycoprotein angiopoietin-like 4 or changing key amino acids in its sequence can be used successfully to treat proteinuria.

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