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Datasheet

ANGPTL4 (Human) Recombinant Protein (P01)

Catalog Number: H00051129-P01

Regulation Status: For research use only (RUO)

Product Description: Human ANGPTL4 full-length ORF (AAH23647.1, 26 a.a. - 406 a.a.) recombinant protein with GST-tag at N-terminal.

Sequence:

GPVQSKSPRFASWDEMNVLAHGLLQLGQGLREHAER
TRSQLSALERRLSACGSACQGTEGSTDPLAPESRVD
PEVLHSLQTQLKAQNSRIQQLFHKVAQQQRHLEKQHL
RIQHLQSQFGLLDHKHLDHEVAKPARRKRLPEMAQPV
DPAHNVSRLHRLPRDCQELFQVGERQSGLF EIQPQGS
PPFLVNCKMTSDGGWTVIQRHDGSDVDFNRPWEAYK
AGFGDPHGFEWLGLEKVHSITGDRNSRLAVQLRDWD
GNAELLQFSVHLGGEDTAYSLQLTAPVAGQLGATTVP
PSGLSVPFSTWDQDHLRRDKNCAKSLSGGWVFGT
CSHSNLNGQYFRSIPQQRQKLLKKGIFWKTWRGRYHP
LQATTMLIQPIAAEAAS

Host: Wheat Germ (in vitro)

Theoretical MW (kDa): 67.65

Interspecies Antigen Sequence: Mouse (75); Rat (76)

Applications: AP, Array, ELISA, WB-Re
(See our web site product page for detailed applications information)

Protocols: See our web site at
<http://www.abnova.com/support/protocols.asp> or product page for detailed protocols

Preparation Method: [in vitro wheat germ expression system](#)

Purification: Glutathione Sepharose 4 Fast Flow

Storage Buffer: 50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

Storage Instruction: Store at -80°C. Aliquot to avoid repeated freezing and thawing.

Entrez GeneID: 51129

Gene Symbol: ANGPTL4

Gene Alias: ANGPTL2, ARP4, FIAF, HFARP, NL2, PGAR, pp1158

Gene Summary: This gene is a member of the angiotensin/angiotensin-like gene family and encodes a glycosylated, secreted protein with a fibrinogen C-terminal domain. This gene 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. Alternatively spliced transcript variants encoding different isoforms have been described. This gene was previously referred to as ANGPTL2 but has been renamed ANGPTL4. [provided by RefSeq]

References:

1. cis-9, trans-11 conjugated linoleic acid stimulates expression of angiotensin like-4 in the placental extravillous trophoblast cells. Basak S, Duttaroy AK. *Biochim Biophys Acta*. 2013 Jan 24;1831(4):834-843. doi: 10.1016/j.bbali.2013.01.012. [Epub ahead of print]
2. Enhanced Angiogenesis in Obesity and in Response to PPAR{gamma} Activators Through Adipocyte VEGF and ANGPTL4 Production. Gealekman O, Burkart A, Chouinard M, Nicoloso S, Straubhaar J, Corvera S. *Am J Physiol Endocrinol Metab*. 2008 Nov;295(5):E1056-64. Epub 2008 Aug 26.