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ANGPTL4 Antibody (monoclonal) (M01)

Mouse monoclonal antibody raised against a full length recombinant ANGPTL4.
Catalog # AT1138a

Product Information

Application	E
Primary Accession	Q9BY76
Other Accession	BC023647
Reactivity	Human
Host	Mouse
Clonality	monoclonal
Isotype	IgG
Clone Names	1F7
Calculated MW	45214

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	ANGPTL4 (AAH23647.1, 26 a.a. ~ 406 a.a) full-length recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Dilution	E~~N/A
Format	Clear, colorless solution in phosphate buffered saline, pH 7.2 .
Storage	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.
Precautions	ANGPTL4 Antibody (monoclonal) (M01) is for research use only and not for use in diagnostic or therapeutic procedures.

Background

This gene is a member of the angiopoietin/angiopoietin-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.

References

Viral G protein-coupled receptor up-regulates Angiopoietin-like 4 promoting angiogenesis and vascular permeability in Kaposi's sarcoma. Ma T, et al. Proc Natl Acad Sci U S A, 2010 Aug 10. PMID 20660728.Variation at the NFATC2 Locus Increases the Risk of Thiazolinedinedione-Induced Edema in the Diabetes REduction Assessment with ramipril and rosiglitazone Medication (DREAM) Study. Bailey SD, et al. Diabetes Care, 2010 Jul 13. PMID 20628086.Phylogenetics applied to genotype/phenotype association and selection analyses with sequence data from angptl4 in humans. Maxwell TJ, et al. Int J Mol Sci, 2010 Jan 25. PMID 20162021.Gene-centric association signals for lipids and apolipoproteins identified via the HumanCVD BeadChip. Talmud PJ, et al. Am J Hum Genet, 2009 Nov. PMID 19913121.Associations between common genetic polymorphisms in angiopoietin-like proteins 3 and 4 and lipid metabolism and adiposity in European adolescents and adults. Legry V, et al. J Clin Endocrinol Metab, 2009 Dec. PMID 19890028.