Immunoway
Best Tools for immunology Research

ApoA-IV Monoclonal Antibody

Catalog No :	YM0032
Reactivity :	Human
Applications :	WB;ELISA
Target :	ApoA-IV
Fields :	>>Fat digestion and absorption;>>Vitamin digestion and absorption;>>Cholesterol metabolism;>>Lipid and atherosclerosis
Gene Name :	APOA4
Protein Name :	Apolipoprotein A-IV
Human Gene Id :	337
Human Swiss Prot No :	P06727
Mouse Swiss Prot No :	P06728
Immunogen :	Purified recombinant fragment of ApoA-IV (aa21-396) expressed in E. Coli.
Specificity :	ApoA-IV Monoclonal Antibody detects endogenous levels of ApoA-IV protein.
Formulation :	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source :	Monoclonal, Mouse
Dilution :	WB 1:500 - 1:2000. ELISA: 1:10000. Not yet tested in other applications.
Purification :	Affinity purification
Storage Stability :	-15°C to -25°C/1 year(Do not lower than -25°C)
Molecularweight :	45kD

P References :

1. J Biol Chem. 2006 Feb 10;281(6):3560-8.
2. Clin Chim Acta. 2008 Feb;388(1-2):78-83.

Background :

Apoliprotein (apo) A-IV gene contains 3 exons separated by two introns. A sequence polymorphism has been identified in the 3'UTR of the third exon. The primary translation product is a 396-residue preprotein which after proteolytic processing is secreted its primary site of synthesis, the intestine, in association with chylomicron particles. Although its precise function is not known, apo A-IV is a potent activator of lecithin-cholesterol acyltransferase in vitro. [provided by RefSeq, Jul 2008],

Function :

domain:Nine of the thirteen 22-amino acid tandem repeats (each 22-mer is actually a tandem array of two, A and B, related 11-mers) occurring in this sequence are predicted to be highly alpha-helical, and many of these helices are amphipathic. They may therefore serve as lipid-binding domains with lecithin:cholesterol acyltransferase (LCAT) activating abilities.,function:May have a role in chylomicrons and VLDL secretion and catabolism. Required for efficient activation of lipoprotein lipase by ApoC-II; potent activator of LCAT. Apoa-IV is a major component of HDL and chylomicrons.,online information:The Singapore human mutation and polymorphism database,polymorphism:Eight alleles have been characterized (APOA-IV*0 to APOA-IV*7). APOA-IV*1 is the major allele (90%), APOA-IV*2 is also common (8%), the others are rare alleles.,similarity:Belongs to the apolipoprotein A1/A4/E family.,tissue

Subcellular Location :

Secreted.

Expression :

Synthesized primarily in the intestine and secreted in plasma.

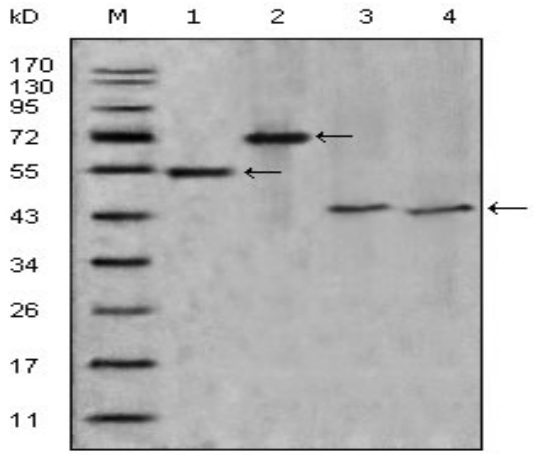
Sort :

2142

No4 :

1

Products Images



Western Blot analysis using ApoA-IV Monoclonal Antibody against truncated APOA4-His recombinant protein (1),truncated APOA4(aa21-396)-hIgGFc transfected CHO-K1 cell lysate(2),human serum (3) and human plasma (4).