

## ApoA-IV Monoclonal Antibody

<b>Catalog No :</b>	YM0031
<b>Reactivity :</b>	Human
<b>Applications :</b>	WB;ELISA
<b>Target :</b>	ApoA-IV
<b>Fields :</b>	>>Fat digestion and absorption;>>Vitamin digestion and absorption;>>Cholesterol metabolism;>>Lipid and atherosclerosis
<b>Gene Name :</b>	APOA4
<b>Protein Name :</b>	Apolipoprotein A-IV
<b>Human Gene Id :</b>	337
<b>Human Swiss Prot No :</b>	P06727
<b>Mouse Swiss Prot No :</b>	P06728
<b>Immunogen :</b>	Purified recombinant fragment of ApoA-IV (aa21-396) expressed in E. Coli.
<b>Specificity :</b>	ApoA-IV Monoclonal Antibody detects endogenous levels of ApoA-IV protein.
<b>Formulation :</b>	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
<b>Source :</b>	Monoclonal, Mouse
<b>Dilution :</b>	WB 1:500 - 1:2000. ELISA: 1:10000. Not yet tested in other applications.
<b>Purification :</b>	Affinity purification
<b>Storage Stability :</b>	-15°C to -25°C/1 year(Do not lower than -25°C)
<b>Molecularweight :</b>	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 :**

Apolipoprotein (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

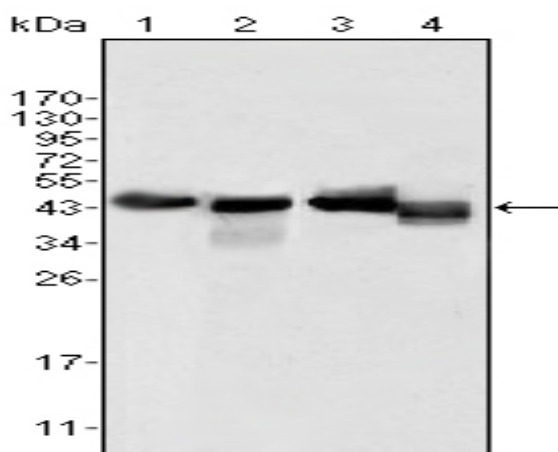
**Subcellular Location :**

Secreted.

**Expression :**

Synthesized primarily in the intestine and secreted in plasma.

## Products Images



Western Blot analysis using ApoA-IV Monoclonal Antibody against human serum (1), human plasma (2), HepG2 cell lysate (3) and SMMC-7721 cell lysate (4).