



# ApoA-IV Monoclonal Antibody

<b>Catalog No</b>	YP-Ab-00599
<b>Isotype</b>	IgG
<b>Reactivity</b>	Human
<b>Applications</b>	WB;ELISA
<b>Gene Name</b>	APOA4
<b>Protein Name</b>	Apolipoprotein A-IV
<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>	Ascitic fluid containing 0.03% sodium azide,0.5% BSA, 50%glycerol.
<b>Source</b>	Monoclonal, Mouse
<b>Purification</b>	Affinity purification
<b>Dilution</b>	Western Blot: 1/500 - 1/2000. ELISA: 1/10000. Not yet tested in other applications.
<b>Concentration</b>	1 mg/ml
<b>Purity</b>	≥90%
<b>Storage Stability</b>	-20°C/1 year
<b>Synonyms</b>	APOA4; Apolipoprotein A-IV; Apo-AIV; ApoA-IV; Apolipoprotein A4
<b>Observed Band</b>	
<b>Cell Pathway</b>	Secreted.
<b>Tissue Specificity</b>	Synthesized primarily in the intestine and secreted in plasma.
<b>Function</b>	<p>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</p>
<b>Background</b>	<p>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</p>



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],

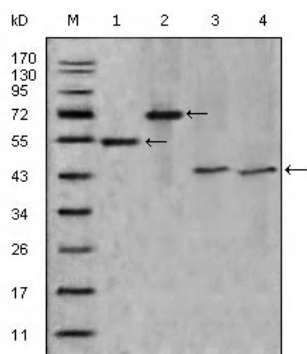
**matters needing attention**

Avoid repeated freezing and thawing!

**Usage suggestions**

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

**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).