Apolipoprotein A4 (APOA4) Antibody – Mouse Monoclonal

PRODUCT OVERVIEW

Product Name	Apolipoprotein A4 (APOA4), Monoclonal Antibody
Full Product Name	HRP-Linked Monoclonal Antibody to Apolipoprotein A4 (APOA4)
Product Gene Name	anti-APOA4 antibody
Clonality	Monoclonal
Isotype	IgG2b Kappa
Clone Number	A8
Host	Mouse
Species Reactivity	Human, Pig
Concentration	500ug/ml (lot specific)
Matching Pairs	Unconjugated Antibody: APOA4 Clone #A8 (MBS2025725) HRP Conjugated Antibody: APOA4 Clone #A8 (MBS2061237)
Matching Pairs	HRP Conjugated Antibody: APOA4 Clone #A8 (MBS2061237) Immunogen: APOA4 (MBS2010005)
Molecular Weight	45,399 Da
OMIM	M13654 mRNA
Supply Chain Verification	Manufactured in a lab with traceable raw materials. Bulk orders can typically be prepared to the customer's specifications, please inquire.
Immunogen	Glu21~Asn235
Conjugation	HRP
Cross Reactivity	Pig
Unconjugated Antibody	The unconjugated antibody version of this item is also available as catalog #MBS2025725
ISO Certification	Manufactured in an ISO 9001:2015 and ISO 13485:2016 Certified Laboratory.
Applications Tested/Suitable for anti-APOA4 antibody	Western Blot (WB), Immunocytochemistry (ICC), Immunohistochemistry (IHC), Immunoprecipitation (IP), ELISA (EIA)
Related Product Information for anti-APOA4 antibody	MBS2061237 is an antibody targeting APOA4. Also known as HRP-Linked Monoclonal Antibody to Apolipoprotein A4 (APOA4). Reactive in Human, Pig. Host: Mouse.
Other Notes	Small volumes of anti-APOA4 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for APOA4. It may not necessarily be applicable to this product.

NCBI GI #	178761
NCBI GeneID	337
NCBI Accession #	AAA51745.1

UniProt Secondary Accession #	Q14CW8; Q6Q787; A8MSL6
UniProt Related Accession #	P06727
NCBI Official Full Name	apolipoprotein A4
NCBI Official Synonym Full Names	apolipoprotein A4
NCBI Official Symbol	APOA4
UniProt Protein Name	Apolipoprotein A-IV
UniProt Synonym Protein Names	Apolipoprotein A4
Protein Family	Apolipoprotein
UniProt Gene Name	APOA4
UniProt Synonym Gene Names	Apo-AIV; ApoA-IV
NCBI Protein Information	apolipoprotein A-IV
NCBI Summary for APOA4	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]
UniProt Comments for APOA4	APOA4: 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. Synthesized primarily in the intestine and secreted in plasma. Belongs to the apolipoprotein A1/A4/E family. Protein type: Cell adhesion; Endoplasmic reticulum; Lipid-binding; Secreted; Secreted, signal peptide Chromosomal Location of Human Ortholog: 11q23.3 Cellular Component: cell surface; chylomicron; cytosol; early endosome; endoplasmic reticulum lumen; extracellular region; extracellular space Molecular Function: antioxidant activity; cholesterol binding; cholesterol transporter activity; copper ion binding; lipid binding; lipid transporter activity; phosphatidylcholine binding; protein binding; protein homodimerization activity Biological Process: cellular protein metabolic process; cholesterol biosynthetic process; cholesterol efflux; cholesterol homeostasis; cholesterol metabolic process; hydrogen peroxide catabolic process; innate immune response in mucosa; leukocyte adhesion; lipid homeostasis; lipid transport; lipoprotein biosynthetic process; lipoprotein metabolic process; multicellular organismal lipid catabolic process; neurite regeneration; phosphatidylcholine metabolic process; phospholipid efflux; positive regulation of fatty acid biosynthetic process; positive regulation of lipoprotein lipase activity; protein-lipid complex assembly; regulation of cholesterol absorption; regulation of cholesterol transport; removal of superoxide radicals; response to lipid hydroperoxide; retinoid metabolic process; reverse cholesterol transport
Research Articles on APOA4	**1.** Low levels of APOA1, APOC3, and APOA4 are associated with risk of Alzheimer disease.
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