NEUROMICS

Apolipoprotein A-1 (APOA1) Data Sheet

Catalog Number:	MO27002	**Host:**	Mouse. Clone: PAT1E12
Product Type:	Monoclonal Mouse IgG2a heavy chain and k light chain. Purified from mouse ascitic fluids by protein-G affinity chromatography	**Species Reactivity:**	Human,
Immunogen Sequence:	Anti-human APOA1, is derived from hybridization of mouse FO myeloma cells with spleen cells from BALB/c mice immunized with recombinant human APOA1 amino acids 25-267 purified from E. coli.	**Format:**	1mg/ml containing PBS, pH-7.4, & 0.1% Sodium Azide.
Applications:	The antibody has been tested by ELISA, Western blot analysis to assure specificity and reactivity. Recommended dilution range for Western blot analysis is 1:500~1:5000. Recommended staring dilution is 1:1000. Dilutions listed as a recommendation. Optimal dilution should be determined by investigator.		
Storage:	Antibody can also be aliquoted and stored frozen at -20° C manual defrost freezer for long term storage. The antibody can be stored at 2° - 8° C for 1 month without detectable loss of activity. Avoid repeated freeze-thaw cycles.		

Application Notes

Description/Data:
APOA1 (Apolipoprotein A-1) is a human protein with a specific role in lipid metabolism being the main protein component of HDL in the plasma. APOA1 promotes cholesterol efflux from tissues to the liver for excretion. Furthermore, APOA1 is a cofactor for LCAT, which is responsible for the formation of most plasma cholesteryl esters. In addition, APOA1 activates spermatozoa motility as part of the SPAP complex. The APOA1 gene is strongly linked with two other apolipoprotein genes on chromosome 11. Defects in the APOA1 gene are linked to HDL deficiency including Tangier disease, and with systemic non-neuropathic amyloidosis. High levels of APOA1 are linked to the manifestation of asthma and atopy.

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