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DATA SHEET

Mouse Anti-Apolipoprotein A1/ApoA1 [APOA1/3661]: MC0389, MC0389RTU7

Intended Use: For Research Use Only

Description: Apolipoproteins are protein components of plasma lipoproteins. The human apoA-I gene encodes a single chain, 243 amino acid protein which promotes cholesterol efflux from tissues to the liver for excretion. Apolipoprotein A-I is the major protein component of high density lipoprotein (HDL) in the plasma. It can function as a cofactor for lecithin cholesterolacyltransferase (LCAT), which is responsible for the formation of most plasma cholesteryl esters. The human apoA-II gene encodes the second most abundant protein of HDL particles, where it influences plasma levels of free fatty acids (FFA). The human apoA-IV gene encodes a 396 amino acid preprotein, which after proteolytic processing is secreted from the intestine in association with chylomicron particles. ApoA-IV is a potent activator of LCAT in vitro. The human apoA-V gene encodes a 366 amino acid protein that is believed to be an important determinant of plasma triglyceride levels.

Specifications:

Clone:	APOA1/3661
Source:	Mouse
Isotype:	IgG1k
Reactivity:	Human
Immunogen:	Human recombinant ApoA1 protein fragment around aa 83-167
Localization:	Secreted
Formulation:	Antibody in PBS pH7.4, containing BSA and ≤ 0.09% sodium azide (NaN3)
Storage:	Store at 2°- 8°C
Applications:	IHC

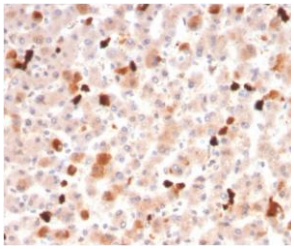
Package:

Description	Catalog No.	Size
Apolipoprotein A1/ApoA1 Concentrated	MC0389	1 ml
Apolipoprotein A1/ApoA1 Prediluted	MC0389RTU7	7 ml

IHC Procedure*:

Positive Control Tissue:	Liver
Concentrated Dilution:	50-200
Pretreatment:	Tris EDTA pH9.0, 15 minutes using Pressure Cooker, or 30-60 minutes using water bath at 95°-99°C
Incubation Time and Temp:	30-60 minutes @ RT
Detection:	Refer to the detection system manual

* Result should be confirmed by an established diagnostic procedure.



FFPE human liver stained with ApoA1 using DAB

References:

1. Using primary murine intestinal enteroids to study dietary TAG absorption, lipoprotein synthesis, and the role of apoC-III in the intestine. Jattan J, et al. J Lipid Res 58:853-865, 2017.
2. Refined purification strategy for reliable proteomic profiling of HDL2/3: Impact on proteomic complexity. Holzer M, et al. Sci Rep 6:38533, 2016.
3. Maternal serum proteome changes between the first and third trimester of pregnancy in rural southern Nepal. Scholl PF, et al. Placenta 33:424-32, 2012.

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