

ApoA1 Monoclonal Antibody (513)

Product Details	
Size	1 mg
Species Reactivity	Human, Mouse
Published Species	Human
Host/Isotope	Mouse / IgG1
Class	Monoclonal
Type	Antibody
Clone	513
Conjugate	Unconjugated
Immunogen	Purified human plasma Apo A-1
Form	Liquid
Concentration	3.84 mg/mL
Purification	Ion-exchange chromatography
Storage buffer	0.015M potassium phosphate, pH 7.2, with 0.15M NaCl
Contains	0.1% sodium azide
Storage Conditions	Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C
RRID	AB_11151929

Applications	Tested	Dilution	Published
Immunohistochemistry (IHC)	-	1:100	1 Publication
ELISA (ELISA)	✓	1 µg/mL	
Immunocytochemistry (ICC)	✓	2 µg/mL	
Immunofluorescence (IF)	✓	2 µg/mL	
Immunohistochemistry (Paraffin) (IHC (P))	✓	1:100	
Immunoprecipitation (IP)	✓	Assay Dependent	
Radioimmune Assays (RIA)	✓	Assay Dependent	
Western Blot (WB)	✓	1:500-1:2000	

Product Specific Information

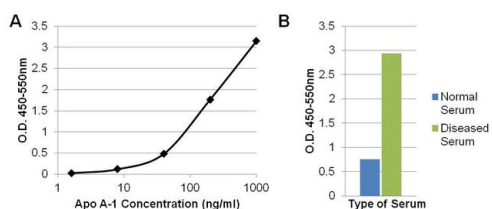
By sandwich ELISA, MIA1404 can be used as a detection antibody with Product # 710263 or # 701239 as a coating antibody, to generate a matched pair. Using these matched pairs, recombinant human Apo A-1, but not recombinant mouse Apo A-1, was detected. MIA1404 can be used to detect Apo A-1 from serum samples. To increase sensitivity of sandwich ELISAs with MIA1404, a biotinylated detection antibody followed by Streptavidin-HRP is recommended.

By Western blot, MIA1404 detects recombinant human Apo A-1, but not recombinant mouse Apo A-1. MIA1404 is also

recommended for detecting endogenous Apo A-1 by Western blot.

MIA1404 was formerly sold as a Seradyn product.

Advanced Verification Data



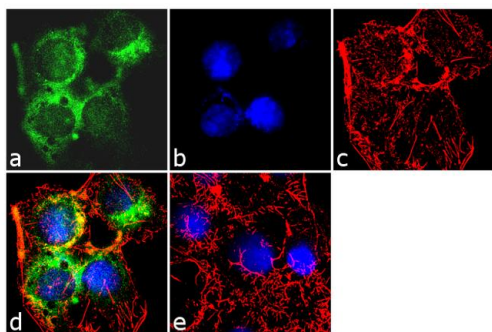
ApoA1 Antibody (MIA1404)

Antibody specificity was demonstrated by detection of relative expression of the target protein across patient samples owing to their inherent genetic constitution. Increased expression of Apolipoprotein A1 in serum from patients suffering from dyslipidemia was detected in ELISA using anti-Apolipoprotein A1 monoclonal antibody (513) (Product # MIA1404). Relative expression validation info.

Product Images For ApoA1 Monoclonal Antibody (513)

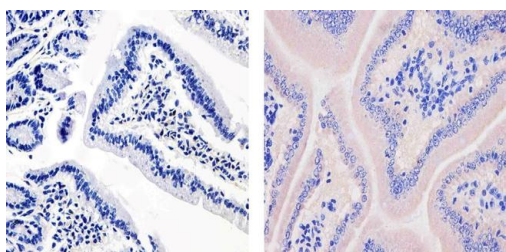
ApoA1 Antibody (MIA1404) in IF

Immunofluorescence analysis of Apolipoprotein A1 was performed using 70% confluent log phase Hep G2 cells. The cells were fixed with 4% paraformaldehyde for 10 minutes, permeabilized with 0.1% Triton™ X-100 for 10 minutes, and blocked with 2% BSA for 1 hour at room temperature. The cells were labeled with Apolipoprotein A1 (513) Mouse Monoclonal Antibody (Product # MIA1404) at 2 µg /mL in 0.1% BSA and incubated for 3 hours at room temperature and then labeled with Goat anti-Mouse IgG (H+L) Superclonal™ Secondary Antibody, Alexa Fluor® 488 conjugate (Product # A28175) a dilution of 1:2000 for 45 minutes at room temperature (Panel a: green). Nuclei (Panel b: blue) were stained with SlowFade® Gold Antifade Mountant with DAPI (Product # S36938). F-actin (Panel c: red) was stained with Alexa Fluor® 555 Rhodamine Phalloidin (Product # R415, 1:300). Panel d represents the merged image showing cytoplasmic localization. Panel e shows the no primary antibody control. The images were captured at 60X magnification.



ApoA1 Antibody (MIA1404) in IHC (P)

Immunohistochemistry analysis of Apolipoprotein A-1 showing staining in the cytoplasm of paraffin-embedded mouse small intestine tissue (right) compared to a negative control without primary antibody (left). To expose target proteins, antigen retrieval was performed using 10mM sodium citrate (pH 6.0), microwaved for 8-15 min. Following antigen retrieval, tissues were blocked in 3% H₂O₂-methanol for 15 min at room temperature, washed with ddH₂O and PBS, and then probed with a Apolipoprotein A-1 Mouse Monoclonal Antibody (Product # MIA1404) diluted in 3% BSA-PBS at a dilution of 1:100 for 1 hour at 37°C in a humidified chamber. Tissues were washed extensively in PBST and detection was performed using an HRP-conjugated secondary antibody followed by colorimetric detection using a DAB kit. Tissues were counterstained with hematoxylin and dehydrated with ethanol and xylene to prep for mounting.



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Immunohistochemistry (1)

Investigative ophthalmology and visual science

Apolipoprotein A-I and B distribution in the human cornea.

"MIA1404 was used in immunohistochemistry to study the expression of apolipoprotein A1 and B in human cornea"

Authors: Ashraf F,Cogan DG,Kruth HS

Species
Human

Dilution
1:100

Year
1993

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