ApoA1 Monoclonal Antibody (513)

Product Details	
Size	100 µg
Species Reactivity	Human
Host/Isotype	Mouse / IgG1
Class	Monoclonal
Type	Antibody
Clone	513
Conjugate	Unconjugated
Immunogen	Purified human plasma Apo A-1
Form	Liquid
Concentration	1 mg/mL
Purification	Ion-exchange chromatography
Storage buffer	PBS, pH 7.4, with 1mg/mL BSA
Contains	0.05% 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_10981271

Applications	Tested Dilution	Publications
Western Blot (WB)	1:500-1:2,000	-
Immunohistochemistry (Paraffin) (IHC (P))	1:10-1:100	-
ELISA (ELISA)	1 µg/mL	-
Immunoprecipitation (IP)	Assay-dependent	-
Radioimmune Assays (RIA)	Assay-dependent	-

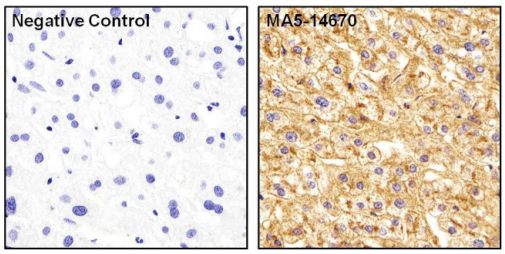
Product Specific Information

By sandwich ELISA, MA5-14670 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. MA5-14670 can be used to detect Apo A-1 from serum samples. To increase sensitivity of sandwich ELISAs with MA5-14670, a biotinylated detection antibody followed by Streptavidin-HRP is recommended.

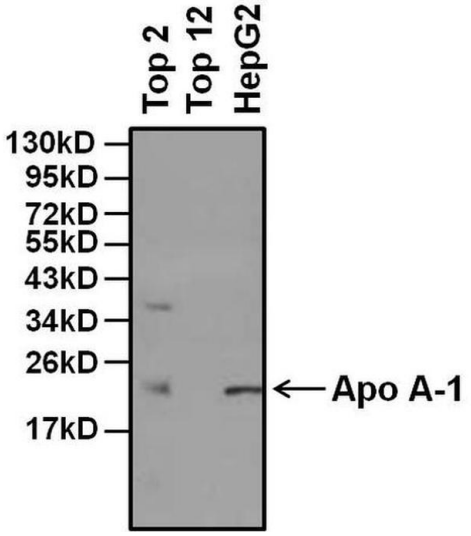
By Western blot, MA5-14670 detects recombinant human Apo A-1, but not recombinant mouse Apo A-1. MA5-14670 is also recommended for detecting endogenous Apo A-1 by Western blot.

Product MA514670 is a smaller package size of MIA1404 (formerly sold as a Seradyn product).

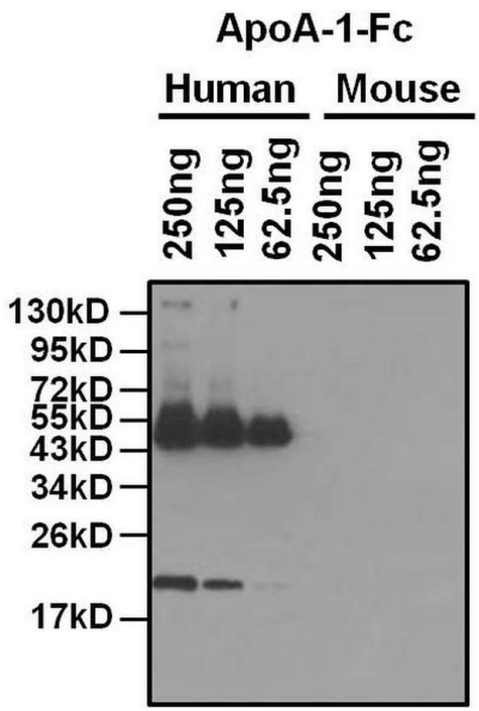
Product Images For ApoA1 Monoclonal Antibody (513)



ApoA1 Antibody (MA5-14670) in IHC (P)
Immunohistochemistry was performed on human liver tissue sections. To expose Apo A-1, tissues were microwaved for 10 minutes in 10mM sodium citrate, pH 6.0. Following antigen retrieval, endogenous peroxidases were blocked in a 3% hydrogen peroxide-methanol solution for 15 minutes, and then tissues were blocked in 3% BSA in PBS for 30 minutes at room temperature. Tissues were probed with an Apo A-1 monoclonal antibody (Product # MA5-14670) at a dilution of 1:50 overnight at 4C, washed extensively in PBST, and detection was performed with an HRP-conjugated anti-mouse IgG secondary antibody followed by DAB substrate. Tissues were counterstained with hematoxylin.



ApoA1 Antibody (MA5-14670) in WB
Western blot analysis of Apolipoprotein A-1 was performed by loading 10 µL of serum depleted of highly abundant proteins using the Top 2 Abundant Protein Depletion Spin Columns (Product # 85162, left lane) or the Top 12 Abundant Protein Depletion Spin Columns (Product # 85164, middle lane) and concentrated using the PES Protein Concentrators, 10K MWCO (Product # 88513), 50 µg of HepG2 whole cell lysate (right lane), and 10 µL of PageRuler Prestained Protein Ladder (Product # 26616) per well onto a Novex® 4-20% Tris-Glycine polyacrylamide gel (Product # WT4202BOX). Proteins were transferred to a Nitrocellulose Membrane (Product # 88014) using the G2 Fast Blotter (Product # 62288), and blocked with 5% milk in TBST for at least 1 hour at room temperature. Apo A-1 was detected at ~25 kD using an Apolipoprotein A-1 monoclonal antibody (Product # MA5-14670) at a dilution of 1:1000 in blocking buffer overnight at 4C on a rocking platform, followed by an HRP-conjugated goat anti-mouse IgG Fc-specific secondary antibody (Product # 31439) at a dilution of 1:40,000 for at least 30 minutes at room temperature. Chemiluminescent detection was performed using SuperSignal West Dura (Product # 34075).



ApoA1 Antibody (MA5-14670) in WB
Western blot analysis of Apolipoprotein A-1 was performed by loading the indicated amounts of a recombinant human Apo A-1-hIgG1Fc fusion protein (Product # 10686-H02H-50) or a recombinant mouse Apo A-1-hIgG1Fc fusion protein (Product # 50918-M02H-50), and 10 µL of PageRuler Prestained Protein Ladder (Product # 26616) per well onto a Novex® 4-20% Tris-Glycine polyacrylamide gel (Product # WT4202BOX). Proteins were transferred to a Nitrocellulose Membrane (Product # 88014) using the G2 Fast Blotter (Product # 62288), and blocked with 5% milk in TBST for at least 1 hour at room temperature. Apo A-1 was detected at ~50 kD using an Apolipoprotein A-1 monoclonal antibody (Product # MA5-14670) at a dilution of 1:1000 in blocking buffer overnight at 4C on a rocking platform, followed by an HRP-conjugated goat anti-mouse IgG Fc-specific secondary antibody (Product # 31439) at a dilution of 1:40,000 for at least 30 minutes at room temperature. Chemiluminescent detection was performed using SuperSignal West Dura (Product # 34075).

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