Human Apolipoprotein A-I/ApoA1 Antibody

Recombinant Monoclonal Rabbit IgG Clone # 2083A
Catalog Number: MAB36641

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human ApoA1 in direct ELISAs and Western blots.
Source	Recombinant Monoclonal Rabbit IgG Clone # 2083A
Purification	Protein A or G purified from cell culture supernatant
Immunogen	*E. coli*-derived recombinant human ApoA1 Asp25-Gln267 Accession # P02647
Formulation	Lyophilized from a 0.2 μm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 μm filtered solution in PBS.

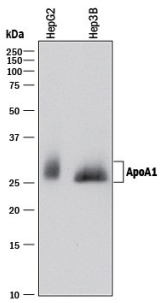
APPLICATIONS

Please Note: *Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.*

	Recommended Concentration	Sample
Western Blot	0.2 µg/mL	See Below
Immunocytochemistry	1-25 µg/mL	See Below
Immunohistochemistry	1-25 µg/mL	See Below
Intracellular Staining by Flow Cytometry	0.25 µg/10^6 cells	See Below

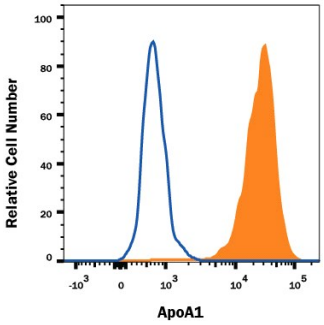
DATA

Western Blot



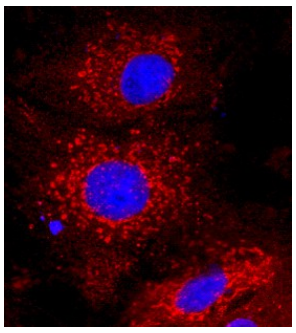
Detection of Human Apolipoprotein A-I/ApoA1 by Western Blot. Western blot shows lysates of HepG2 human hepatocellular carcinoma cell line and Hep3B human hepatocellular carcinoma cell line. PVDF membrane was probed with 0.2 µg/mL of Rabbit Anti-Human Apolipoprotein A-I/ApoA1 Monoclonal Antibody (Catalog # MAB36641) followed by HRP-conjugated Anti-Rabbit IgG Secondary Antibody (Catalog # HAF008). A specific band was detected for Apolipoprotein A-I/ApoA1 at approximately 25-30 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.

Intracellular Staining by Flow Cytometry



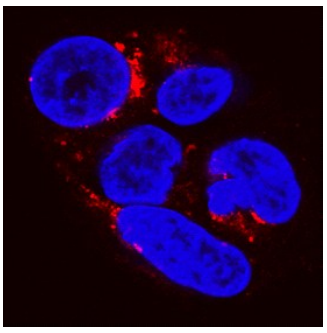
Detection of Apolipoprotein A-I/ApoA1 in HepG2 Human Cell Line by Flow Cytometry HepG2 human hepatocellular carcinoma cell line was stained with Rabbit Anti-Human Apolipoprotein A-I/ApoA1 Monoclonal Antibody (Catalog # MAB36641, filled histogram) or isotype control antibody (Catalog # MAB1050, open histogram), followed by Phycoerythrin-conjugated Anti-Rabbit IgG Secondary Antibody (Catalog # F0110). To facilitate intracellular staining, cells were fixed with Flow Cytometry Fixation Buffer (Catalog # FC004) and permeabilized with Flow Cytometry Permeabilization/Wash Buffer I (Catalog # FC005). View our protocol for Staining Intracellular Molecules.

Immunocytochemistry



Apolipoprotein A-I/ApoA1 in Human Hepatocytes. Apolipoprotein A-I/ApoA1 was detected in immersion fixed human hepatocytes using Rabbit Anti-Human Apolipoprotein A-I/ApoA1 Monoclonal Antibody (Catalog # MAB36641) at 1 µg/mL for 3 hours at room temperature. Cells were stained using the NorthernLights™ 557-conjugated Anti-Rabbit IgG Secondary Antibody (red; Catalog # NL004) and counterstained with DAPI (blue). Specific staining was localized to cell secretion. View our protocol for Fluorescent ICC Staining of Cells on Coverslips.

Immunocytochemistry



Apolipoprotein A-I/ApoA1 in HepG2 Human Cell Line. Apolipoprotein A-I/ApoA1 was detected in immersion fixed HepG2 human hepatocellular carcinoma cell line using Rabbit Anti-Human Apolipoprotein A-I/ApoA1 Monoclonal Antibody (Catalog # MAB36641) at 1 µg/mL for 3 hours at room temperature. Cells were stained using the NorthernLights™ 557-conjugated Anti-Rabbit IgG Secondary Antibody (red; Catalog # NL004) and counterstained with DAPI (blue). Specific staining was localized to cytoplasm. View our protocol for Fluorescent ICC Staining of Cells on Coverslips.

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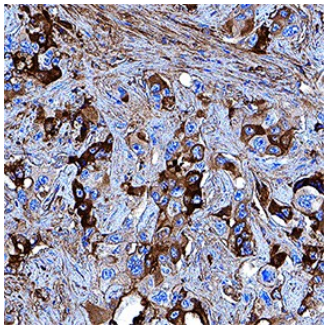
Immunohistochemistry



Apolipoprotein A-I/ApoA1 in Human Liver Cancer Tissue.
Apolipoprotein A-I/ApoA1 was detected in immersion fixed paraffin-embedded sections of human liver cancer tissue using Rabbit Anti-Human Apolipoprotein A-I/ApoA1 Monoclonal Antibody (Catalog # MAB36641) at 1 µg/mL for 1 hour at room temperature followed by incubation with the Anti-Rabbit IgG VisUCyte™ HRP Polymer Antibody (Catalog # VC003). Tissue was stained using DAB (brown) and counterstained with hematoxylin (blue). Specific staining was localized to cytoplasm in cancer cells. View our protocol for IHC Staining with VisUCyte HRP Polymer Detection Reagents.

PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.5 mg/mL in sterile PBS.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
Stability & Storage	**Use a manual defrost freezer and avoid repeated freeze-thaw cycles.** ● 12 months from date of receipt, -20 to -70 °C as supplied. ● 1 month, 2 to 8 °C under sterile conditions after reconstitution. ● 6 months, -20 to -70 °C under sterile conditions after reconstitution.

BACKGROUND

ApoA1 is a major protein component of serum high-density lipoprotein (HDL) and is produced by the liver and small intestine. It is involved in reverse cholesterol transport from tissues to the liver. ApoA1 is synthesized as a 267 amino acid (aa) precursor from which a signal peptide and short propeptide are removed. Mature human ApoA1 shares 65% and 61% aa sequence identity with mouse and rat ApoA1, respectively.

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