Human Apolipoprotein C-II/ApoC2 Antibody

Recombinant Monoclonal Rabbit IgG Clone # 2554B
Catalog Number: MAB44971

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human Apolipoprotein C-II/ApoC2 in direct ELISA.
Source	Recombinant Monoclonal Rabbit IgG Clone # 2554B
Purification	Protein A or G purified from cell culture supernatant
Immunogen	*E. coli*-derived human Apolipoprotein C-II/ApoC2 Thr23-Glu101 Accession # P02655
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.

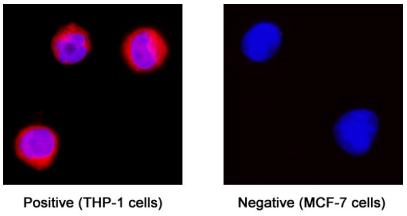
APPLICATIONS

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
Immunocytochemistry	3-25 µg/mL	Immersion fixed THP-1 human acute monocytic leukemia cell line
Immunohistochemistry	0.3-25 µg/mL	Immersion fixed paraffin-embedded sections of human liver
ELISA	This antibody functions as an ELISA detection antibody when paired with Rabbit Anti-Human Apolipoprotein C-II/ApoC2 Monoclonal Antibody (Catalog # MAB4497). This product is intended for assay development on various assay platforms requiring antibody pairs.	

DATA

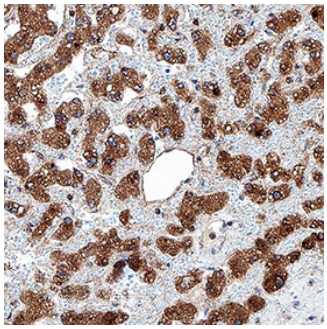
Immunocytochemistry



Positive (THP-1 cells) Negative (MCF-7 cells)

Apolipoprotein C-II/ApoC2 in THP-1 Human Cell Line. Apolipoprotein C-II/ApoC2 was detected in immersion fixed THP-1 human acute monocytic leukemia cell line (left panel; positive staining) and MCF-7 human breast cancer cell line (right panel; negative staining) using Rabbit Anti-Human Apolipoprotein C-II/ApoC2 Monoclonal Antibody (Catalog # MAB44971) at 3 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. Staining was performed using our protocol for Fluorescent ICC Staining of Non-adherent Cells.

Immunohistochemistry



Apolipoprotein C-II/ApoC2 in Human Liver. Apolipoprotein C-II/ApoC2 was detected in immersion fixed paraffin-embedded sections of human liver using Rabbit Anti-Human Apolipoprotein C-II/ApoC2 Monoclonal Antibody (Catalog # MAB44971) at 0.3 µg/mL for 1 hour at room temperature followed by incubation with the Anti-Rabbit IgG VisUCyte™ HRP Polymer Antibody (Catalog # VC003). Before incubation with the primary antibody, tissue was subjected to heat-induced epitope retrieval using Antigen Retrieval Reagent-Basic (Catalog # CTS013). Tissue was stained using DAB (brown) and counterstained with hematoxylin (blue). Specific staining was localized to cytoplasm in hepatocytes. Staining was performed using our protocol for IHC Staining with VisUCyte HRP Polymer Detection Reagents.

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Global bio-techne.com info@bio-techne.com techsupport@bio-techne.com TEL +1 612 379 2956
USA TEL 800 343 7475 Canada TEL 855 668 8722 China TEL +86 (21) 52380373
Europe | Middle East | Africa TEL +44 (0)1235 529449

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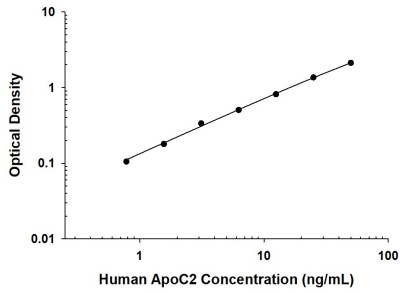
ELISA



Human Apolipoprotein C-II/ApoC2 ELISA Standard Curve. Recombinant Human Apolipoprotein C-II/ApoC2 protein was serially diluted 2-fold and captured by Rabbit Anti-Human Apolipoprotein C-II/ApoC2 Monoclonal Antibody (Catalog # MAB4497) coated on a Clear Polystyrene Microplate (Catalog # DY990). Rabbit Anti-Human Apolipoprotein C-II/ApoC2 Monoclonal Antibody (Catalog # Catalog # MAB44971) was biotinylated and incubated with the protein captured on the plate. Detection of the standard curve was achieved by incubating Streptavidin-HRP (Catalog # DY998) followed by Substrate Solution (Catalog # DY999) and stopping the enzymatic reaction with Stop Solution (Catalog # DY994).

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

Apolipoprotein C2 (ApoC2/II) is a 8-9 kDa, secreted member of the Apolipoprotein C2 family of proteins. It is produced by hepatocytes and represents a major component of VLDL particles. It activates lipoprotein lipase and may self-associate to form amyloid-type fibrils. The human ApoC2 precursor is 101 amino acids (aa) in length. It contains a 22 amino acid (aa) signal sequence, followed by a 79 aa ProApoC2 that contains a lipid-binding region (aa 43-51) and an enzyme interaction site (aa 55-78). ProApoC2 represents >90% of circulating ApoC2. In human, limited proteolytic processing occurs with removal of the six aa prosegment (aa 23-28). This does not affect activity. Human ProApoC2 is 59% and 62% aa identical to mouse and rat ProApoC2, respectively.

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