

Human Apolipoprotein C-II/ApoC2 Antibody

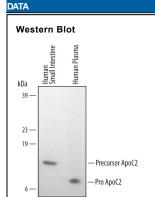
Antigen Affinity-purified Polyclonal Sheep IgG Catalog Number: AF4497

DESCRIPTION			
Species Reactivity	Human		
Specificity	Detects human ApoC2 in Western blots. In Western blots, this antibody detects both the precursor and processed forms of ApoC2.		
Source	Polyclonal Sheep IgG		
Purification	Antigen Affinity-purified		
Immunogen	E. coli-derived recombinant human 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.		

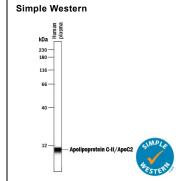
APPLICATIONS

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
Western Blot	0.5 μg/mL	See Below
Simple Western	5 μg/mL	See Below



Detection of Human Apolipoprotein C-II/ApoC2 by Western Blot. Western blot shows lysates of human small intestine tissue and plasma. PVDF membrane was probed with 0.5 μg/ml. of Human Apolipoprotein C-II/ApoC2 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF4497) followed by HRP-conjugated Anti-Sheep IgG Secondary Antibody (Catalog # HAF016). A specific band was detected for precursor Apolipoprotein C-II/ApoC2 at approximately 12 kDa and processed ApoC2 at approximately 8 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 2.



Detection of Human Apolipoprotein C-III/ApoC2 by Simple Western™. Simple Western lane view shows lysates of human plasma, loaded at 0.2 mg/mL. A specific band was detected for Apolipoprotein C-II/ApoC2 at approximately 9 kDa (as indicated) using 5 µg/mL of Sheep Anti-Human Apolipoprotein C-II/ApoC2 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF4497) followed by 1:50 dilution of HRP-conjugated Anti-Sheep IgG Secondary Antibody (Catalog # HAF016). This experiment was conducted under reducing conditions and using the 12-230 kDa separation system.

PREPARATION AND STORAGE

Reconstitution Reconstitute at 0.2 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

- 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.

Rev. 2/6/2018 Page 1 of 1

