

## Basic Information

|                    |                                                                                                                                                                                                                             |
|--------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product Name       | Anti-APOC3 Antibody                                                                                                                                                                                                         |
| Gene Name          | APOC3                                                                                                                                                                                                                       |
| Source             | Rabbit                                                                                                                                                                                                                      |
| Isotype            | IgG                                                                                                                                                                                                                         |
| Species Reactivity | human, mouse, rat                                                                                                                                                                                                           |
| Tested Application | WB, FCM                                                                                                                                                                                                                     |
| Contents           | 500 ug/ml antibody with PBS , 0.02% NaN <sub>3</sub> , 1 mg BSA and 50% glycerol.                                                                                                                                           |
| Immunogen          | E. coli-derived human Apolipoprotein CIII recombinant protein (Position: S21-A99). Human Apolipoprotein CIII shares 55.3% and 54.3% amino acid (aa) sequence identity with mouse and rat Apolipoprotein CIII, respectively. |
| concentration      | 500 ug/ml                                                                                                                                                                                                                   |
| Purification       | Immunogen affinity purified.                                                                                                                                                                                                |
| Observed MW        | 17KD                                                                                                                                                                                                                        |
| Dilution Ratios    | Western blot (WB): 1:500-2000<br>Flow cytometry (FCM):1-3 µg/1x10 <sup>6</sup> cells                                                                                                                                        |

## Storage

12 months from date of receipt, -20°C as supplied. 6 months 2 to 8°C after reconstitution. Avoid repeated freezing and thawing.

## Background Information

Apolipoprotein C-III, also known as apo-CIII, is a protein that in humans is encoded by the APOC3 gene. Apo-CIII is a component of very low density lipoprotein (VLDL). APOC3 inhibits lipoprotein lipase and hepatic lipase; it is thought to delay catabolism of triglyceride-rich particles. The APOA1, APOC3 and APOA4 genes are closely linked in both rat and human genomes. The A-I and A-IV genes are transcribed from the same strand, while the A-1 and C-III genes are convergently transcribed. An increase in apoC-III levels induces the development of hypertriglyceridemia.

## Reference

Anti-APOC3 Antibody被引用在1文献中。

## Selected Validation Data

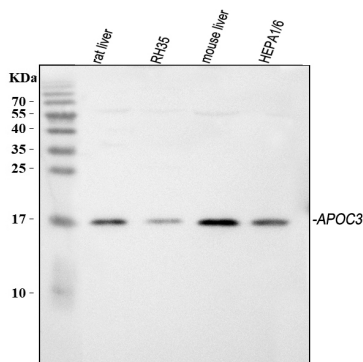


Figure 1. Western blot analysis of anti-APOC3 antibody (PB1097). The sample well of each lane was loaded with 50ug of sample under reducing conditions.

Lane 1: rat liver tissue lysates,

Lane 2: rat RH35 whole cell lysates,

Lane 3: mouse liver tissue lysates,

Lane 4: mouse Hepa1-6 whole cell lysates.

Use rabbit anti-APOC3 1:1000, probed with a goat anti-rabbit IgG-HRP secondary antibody. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1002). A specific band was detected for APOC3 at approximately 17KD. The expected band size for APOC3 is at 11KD.

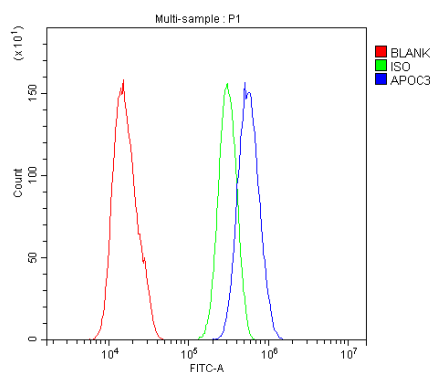


Figure 2. Flow cytometry analysis of SiHa cells (1x10<sup>6</sup>) stained with DyLight 488 conjugated goat anti-rabbit IgG (blue line) and rabbit IgG DyLight 488 (green line). The red line represents the unlabeled sample.