

## DESCRIPTION

|                           |                                                                                                                                                                                                                                                                             |
|---------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Species Reactivity</b> | Human                                                                                                                                                                                                                                                                       |
| <b>Specificity</b>        | Detects human Apolipoprotein B/ApoB in direct ELISAs.                                                                                                                                                                                                                       |
| <b>Source</b>             | Monoclonal Mouse IgG <sub>1</sub> Clone # 1008037                                                                                                                                                                                                                           |
| <b>Purification</b>       | Protein A or G purified from hybridoma culture supernatant                                                                                                                                                                                                                  |
| <b>Immunogen</b>          | <i>E. coli</i> -derived recombinant human Apolipoprotein B/ApoB<br>Ile3374-Val3600<br>Accession # P04114                                                                                                                                                                    |
| <b>Conjugate</b>          | Alexa Fluor 350<br>Excitation Wavelength: 346 nm<br>Emission Wavelength: 442 nm                                                                                                                                                                                             |
| <b>Formulation</b>        | Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide<br><br>*Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions. |

## 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.

|                             |                                                                        |
|-----------------------------|------------------------------------------------------------------------|
| <b>Western Blot</b>         | Optimal dilution of this antibody should be experimentally determined. |
| <b>Immunohistochemistry</b> | Optimal dilution of this antibody should be experimentally determined. |

## PREPARATION AND STORAGE

|                                |                                                                                                                   |
|--------------------------------|-------------------------------------------------------------------------------------------------------------------|
| <b>Shipping</b>                | The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below. |
| <b>Stability &amp; Storage</b> | Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied                          |

## BACKGROUND

Human ApoB (Apolipoprotein B-100) is a 550 kDa, secreted, palmitoylated glycoprotein that is part of LDL and VLDL particles. It is made by liver and is 4536 amino acids (aa) in length. It binds LDL to the ApoB/E receptor. Multiple forms of ApoB-100 exist; ApoB-25, 26, 29, 37, 39, 48, and 74. The numbers reflect each molecule's predicted MW as a percentage of ApoB-100 (512 kDa). Amino acids 1206-1414 of the precursor were used for immunization. Based on likelihood of secretion, this antibody may recognize B26 (1297 aa), B37 (1728 aa), B39 (1799 aa), and B48 (2152 aa). Over the immunization polypeptide range, human ApoB-100 is 80% and 82% aa identical to mouse and dog ApoB-100, respectively.

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