

## APOB

### Native Human Apolipoprotein B

|                                 |   |                  |        |
|---------------------------------|---|------------------|--------|
| <b>Catalog No.</b>              | CRA128  | <b>Quantity:</b> | 500 µg |
| <b>Alternate Names:</b>         | LDL protein, Low Density lipoprotein protein, Apolipoprotein B protein, Apo-B protein, Apo B protein  |                  |        |
| <b>Description:</b>             | Apolipoprotein B is the dominant protein constituent of LDL. The concentration of Apo B in normal plasma is 90 mg per 100 ml. Apo B is thought to stabilize lipid emulsions, serve as a cofactor and modulator of enzymatic reactions, manage export of lipids out of cells and direct lipids to target organs. In a normal fasting individual, low density lipoprotein concentrations range from 2.0 - 3.5 g/L. LDL constitutes 50% of the total lipoprotein mass in plasma and is the major carrier of cholesterol and cholesteryl esters. LDL levels strongly correlate with coronary heart disease. |                  |        |
| <b>Concentration:</b>           | ~2.0 mg/ml, lot specific, modified Lowry procedure, prior to lyophilization   |                  |        |
| <b>Gene ID:</b>                 | 338   |                  |        |
| <b>UniProt ID:</b>              | P04114  |                  |        |
| <b>Source:</b>                  | Human plasma  |                  |        |
| <b>Molecular Weight:</b>        | 550 kDa   |                  |        |
| <b>Formulation:</b>             | Lyophilized from 10 mM sodium deoxycholate, pH 10.0, with 50 mM Na <sub>2</sub> CO <sub>3</sub> and 50 mM NaCl  |                  |        |
| <b>Purity:</b>                  | ≥95% pure by SDS-PAGE, single arc by IEP against whole human serum  |                  |        |
| <b>Reconstitution:</b>          | Centrifuge briefly to ensure complete recovery. Add de-ionized H <sub>2</sub> O to the original volume followed by gentle vortexing/swirling for homogenization.  |                  |        |
| <b>Storage &amp; Stability:</b> | Upon receipt, store at -20°C. Upon reconstitution store at 2-8 °C for up to 1 week, or prepare aliquots and store at -20°C to -80°C. <b>Avoid repeated freeze/thaw cycles.</b>  |                  |        |
| <b>Certification:</b>           | Prepared from plasma which tested non-reactive for HBsAg, anti-HCV, anti-HBc and negative for anti-HIV 1 & 2 by FDA required tests.   |                  |        |

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