

## Basic Information

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|---------------------------|---|
| <b>Product Name</b>       | Anti-Apolipoprotein AI/APOA1 DyLight 550 Conjugated Antibody  |
| <b>Gene Name</b>          | APOA1   |
| <b>Source</b>             | Rabbit  |
| <b>Clonality</b>          | Polyclonal  |
| <b>Isotype</b>            | IgG   |
| <b>Species Reactivity</b> | human   |
| <b>Tested Application</b> | FCM   |
| <b>Contents</b>           | Each vial contains 50% glycerol, 0.9% NaCl, 0.2% Na <sub>2</sub> HPO <sub>4</sub> , 0.02% Na <sub>3</sub> N.  |
| <b>Immunogen</b>          | E. coli-derived human Apolipoprotein A I recombinant protein (Position: D25-Q267). Human Apolipoprotein A I shares 64% and 61.7% amino acid (aa) sequence identity with mouse and rat Apolipoprotein A I, respectively. |
| <b>Fluorophores</b>       | Amax=562nm; Emax=576nm  |
| <b>Conjugate</b>          | Dylight 550   |
| <b>Concentration</b>      | 500ug/ml  |
| <b>Purification</b>       | Immunogen affinity purified.  |
| <b>Dilution Ratios</b>    | Flow cytometry (FCM):1-3 µg/1x10 <sup>6</sup> cells   |

## Storage

At -20°C for one year from date of receipt. Avoid repeated freezing and thawing. Protect from light.

## Background Information

Apolipoprotein A-1, also known as APOA1, is a human protein with a specific role in lipid metabolism. It binds to lipopolysaccharide or endotoxin, and has a major role in the anti-endotoxin function of HDL. The gene is mapped to 11q23. And it is a single polypeptide chain with 243 amino acid residues of known primary amino acid sequence. The ApoA-I protein promotes cholesterol efflux from tissues to the liver for excretion. It is a cofactor for lecithin cholesterolacyltransferase (LCAT) which is responsible for the formation of most plasma cholesteryl esters. ApoA-I is also isolated as a prostacyclin (PGI<sub>2</sub>) stabilizing factor, and thus may have an anticlotting effect. Defects in the gene encoding it are associated with HDL deficiencies, including Tangier disease, and with systemic non-neuropathic amyloidosis. Additionally, ApoA-I overexpression promotes macrophage-specific reverse cholesterol transport.

## Selected Validation Data

Product datasheet

**Anti-Apolipoprotein AI/APOA1  
DyLight 550 Conjugated Antibody**

**Catalog Number: A00717-Dyl550**

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antibody and ELISA experts

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