Product datasheet Anti-Apolipoprotein Al/APOA1 DyLight 488 Conjugated Antibody Catalog Number: A00717-Dyl488



BOSTER BIOLOGICAL TECHNOLOGY

Building C21, 3rd and 4th floors, Optics Valley Biomedical Accelerator, Wuhan East Lake High-tech Development Zone

Web: www.boster.com Phone: 027-67845390 Email: boster@boster.com

Basic Information	
Product Name	Anti-Apolipoprotein AI/APOA1 DyLight 488 Conjugated Antibody
Gene Name	APOA1
Source	Rabbit
Clonality	Polyclonal
lsotype	lgG
Species Reactivity	human
Tested Application	FCM
Contents	Each vial contains 50% glycerol, 0.9% NaCl, 0.2% Na2HPO4, 0.02% NaN3.
Immunogen	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.
Fluorophores	Amax=488nm; Emax=515-545nm
Conjugate	DyLight 488
Concentration	500ug/ml
Purification	Immunogen affinity purified.
Dilution Ratios	Flow cytometry (FCM):1-3 µg/1x10 ⁶ 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 (PGI2) 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

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Figure 1. Flow Cytometry analysis of HEPG2 cells using anti-Human Apolipoprotein A I antibody (A00717-Dyl488). Overlay histogram showing HEPG2 cells stained with A00717-Dyl488 (Blue line). Isotype control antibody (Green line) was rabbit IgG (1µg/1x106) used under the same conditions. Unlabelled sample (Red line) was also used as a control.