

## Anti-Apolipoprotein A I/APOA1 Antibody Picoband® Cy3 Conjugated

Catalog Number: PB9916-Cy3

### About APOA1

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.

### Overview

Product Name	Anti-Apolipoprotein A I/APOA1 Antibody Picoband® Cy3 Conjugated
Reactive Species	Human
Application	Flow Cytometry
Clonality	Polyclonal
Formulation	Each vial contains 50% glycerol, 0.9% NaCl, 0.2% Na2HPO4, 0.02% NaN3.
Storage Instructions	At -20°C for one year from date of receipt. Avoid repeated freezing and thawing. Protect from light.
Host	Rabbit
Uniprot ID	P02647

### Technical Details

Immunogen	E. coli-derived human APOA1 recombinant protein (Position: D25-Q267). Human APOA1 shares 64% and 61.7% amino acid (aa) sequence identity with mouse and rat APOA1, respectively.
Cross Reactivity	No cross-reactivity with other proteins
Isotype	Rabbit IgG
Form	Liquid
Concentration	0.5 mg/mL
Purification	Immunogen affinity purified.
Conjugate	Cy3 Excitation Wavelength: 554 nm Emission Wavelength: 568 nm

Suggested Dilutions

Flow Cytometry, Optimal dilutions should be determined by end users.

## 1 Publications Citing This Product

1. PubMed ID: 34103620, Xiang Y,Zheng Y,Liu S,Liu G,Li Z,Dong W.Comparison of the sensitivity of Western blotting between PVDF and NC membranes.Sci Rep.2021 Jun 8;11(1):12022.doi:10.1038/s41598-021-91521-8.PMID:34103620;PMCID:PMC8187435.

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