

## Anti-Apolipoprotein A I APOA1 Antibody Picoband® (monoclonal, 17G5) Biotin Conjugated

Catalog Number: M00717-1-Biotin

### 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 (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.

### Overview

Product Name	Anti-Apolipoprotein A I APOA1 Antibody Picoband® (monoclonal, 17G5) Biotin Conjugated
Reactive Species	Human
Clonality	Monoclonal 17G5
Formulation	Each vial contains 50% glycerol, 0.9% NaCl, 0.2% Na <sub>2</sub> HPO <sub>4</sub> , 0.02% NaN <sub>3</sub> .
Storage Instructions	At -20°C for one year from date of receipt. Avoid repeated freezing and thawing.
Host	Mouse
Uniprot ID	P02647

### Technical Details

Immunogen	E. coli-derived mouse Apolipoprotein A I recombinant protein (Position: D25-Q264). Mouse Apolipoprotein A I shares 64% and 68.6% amino acid (aa) sequence identity with human and rat Apolipoprotein A I, respectively.
Cross Reactivity	No cross-reactivity with other proteins.
Isotype	Mouse IgG1
Form	Liquid
Concentration	0.5 mg/mL
Purification	Affinity-chromatography
Conjugate	Biotin

Suggested Dilutions

The intended application should be selected according to the customer's experimental requirements.

## 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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