

Datasheet for 200-901-Y41**APOLIPOPROTEIN A-I Antibody****Overview**

Description:	Anti-Apolipoprotein A-I (CHICKEN) Antibody - 200-901-Y41
Item No.:	200-901-Y41
Size:	100 µg
Applications:	ELISA, IF, WB
Reactivity:	Human, Mouse, Rat
Host Species:	Chicken

Product Details

Background:	Apolipoprotein A1 (ApoA1) is the major protein component of high density lipoprotein (HDL) in plasma. ApoA1 is synthesized in the liver and small intestine and promotes cholesterol efflux from tissues to the liver for excretion. It is a cofactor for lecithin cholesterolacyltransferase (LCAT), the enzyme responsible for the formation of most plasma cholesteryl esters. Defects in ApoA1 are associated with HDL deficiency, Tangier disease, and systemic non-neuropathic amyloidosis.
Synonyms:	ApoA1 Antibody, Apolipoprotein A-I, Apolipoprotein A1, Apo-AI
Host Species:	Chicken
Clonality:	Polyclonal
Format:	IgY

Target Details

Gene Name:	APOA1
Reactivity:	Human, Mouse, Rat
Immunogen Type:	Conjugated Peptide
Immunogen:	Anti-ApoA1 antibody was prepared from chicken egg fractions produced by repeated immunizations with a 17 amino acid synthetic peptide from near the N-terminus of human ApoA1.

Purity/Specificity:	Anti-ApoA1 Antibody is an IgY fraction that has been affinity purified by immunoaffinity purification. Cross reactivity with ApoA1 from other sources has not been determined.
Relevant Links:	• UniProtKB - P02647 • GeneID - 335 • NCBI - 4557321

Application Details

Tested Applications:	ELISA, IF, WB
Application Note:	Anti-ApoA1 Antibody has been tested for use in ELISA, Western Blotting and Immunofluorescence. Specific conditions for reactivity should be optimized by the end user. Expect a band at approximately 31 kDa in Western Blots of specific cell lysates and tissues.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	1:10,000
IF:	20 µg/mL
WB:	1 µg/mL

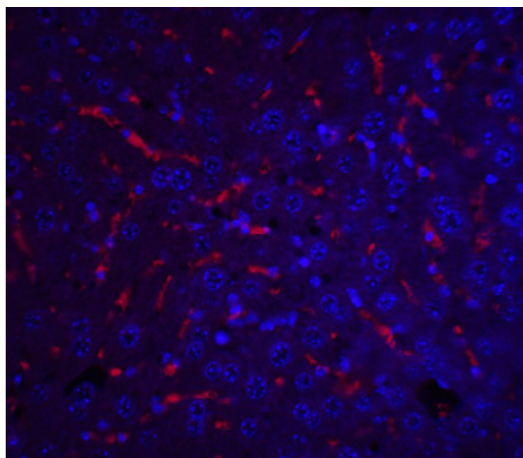
Formulation

Physical State:	Liquid (sterile filtered)
Concentration:	1.0 mg/ml by UV absorbance at 280 nm
Buffer:	0.01 M Sodium Phosphate, 0.25 M Sodium Chloride, pH 7.2
Preservative:	0.02% (w/v) Sodium Azide
Stabilizer:	None

Shipping & Handling

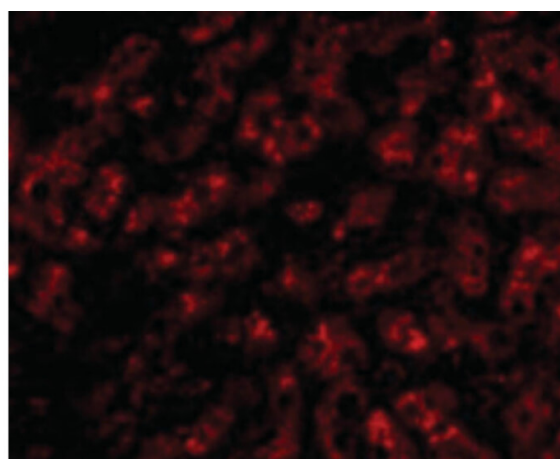
Shipping Condition:	Dry Ice
Storage Condition:	Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.
Expiration:	Expiration date is one (1) year from date of receipt.

Images



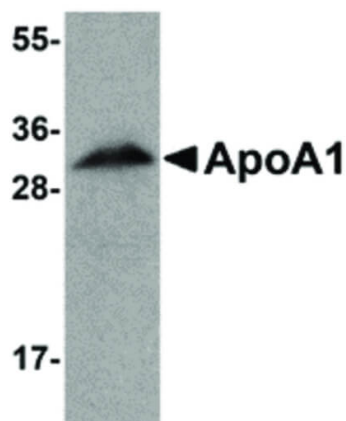
Immunofluorescence Microscopy

Immunofluorescence Microscopy of ApoA1 antibody. Tissue: mouse liver tissue. Primary antibody: ApoA1 antibody at 20 $\mu\text{g}/\text{mL}$. Staining: ApoA1 as red fluorescent signal, Blue DAPI.



Immunofluorescence Microscopy

Immunofluorescence Microscopy of ApoA1 antibody. Tissue: human liver cells. Fixation: 0.5% PFA. Antigen retrieval: not required. Primary antibody: ApoA1 antibody at 20 $\mu\text{g}/\text{mL}$ for 1 h at RT. Secondary antibody: Fluorescein anti-chicken secondary antibody at 1:10,000 for 45 min at RT. Localization: ApoA1 is secreted into extracellular regions. Staining: ApoA1 as red fluorescent signal.



Western Blot

Western Blot of ApoA1 antibody. Lane 1: Human liver tissue lysate with ApoA1 antibody at 1 $\mu\text{g}/\text{mL}$. Load: 35 μg per lane. Secondary antibody: Peroxidase anti-chicken secondary antibody at 1:10,000 for 45 min at RT. Block: 5% BLOTTO overnight at 4°C. Predicted/Observed size: 31 kDa, 31 kDa for ApoA1. Other band(s): none.

Disclaimer

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.