

# ApoA1 Recombinant Rabbit Monoclonal Antibody (19H20L19)

## Product Details

Size	100 µg
Species Reactivity	Human, Rat
Published Species	Mouse, Human
Host/Isotype	Rabbit / IgG
Expression system	Expi293
Class	Recombinant Monoclonal
Type	Antibody
Clone	19H20L19
Conjugate	Unconjugated
Immunogen	Peptide corresponding to amino acids 127-142 of human Apolipoprotein A1
Form	Liquid
Concentration	0.5 mg/mL
Purification	Protein A
Storage buffer	PBS
Contains	0.09% sodium azide
Storage conditions	Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.
RRID	AB_2532437

Applications	Tested Dilution	Publications
Western Blot (WB)	2-4 µg/mL	5 Publications
Immunocytochemistry (ICC/IF)	1-2 µg/mL	-
ELISA (ELISA)	1 µg/mL	-

## Product Specific Information

This antibody is predicted to react with mouse and non-human primate based on sequence homology.

Intact IgG appears on a non-reducing gel as ~150 kDa band and upon reduction generating a ~25 kDa light chain band and a ~50 kDa heavy chain.

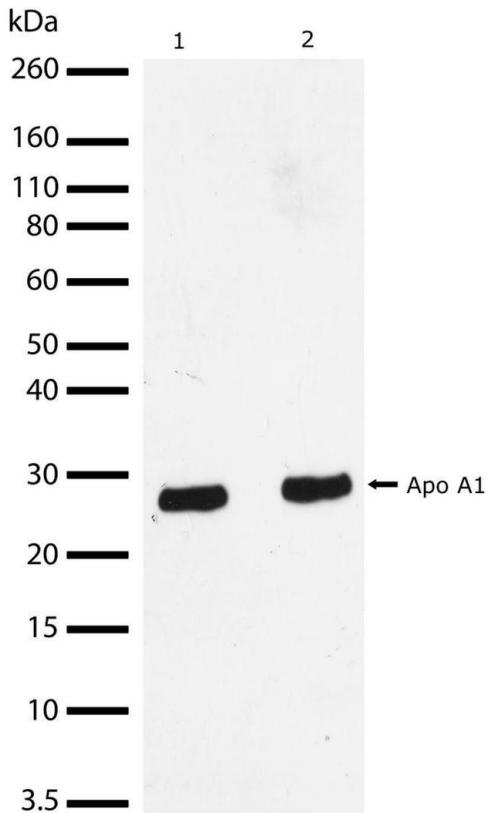
By sandwich ELISA, 701239 can be used as a coating antibody with each of the following mouse monoclonal detection antibodies: Product # MA5-14668, MA5-14670, or MA5-14732, to generate a matched pair. With each of these matched pairs, recombinant human Apo A-1, but not recombinant mouse Apo A-1, is detected. 701239 can be used to capture Apo A-1 from serum samples. To increase sensitivity of sandwich ELISAs with 701239, a biotinylated detection antibody followed by Streptavidin-HRP is recommended.

Recombinant rabbit monoclonal antibodies are produced using in vitro expression systems. The expression systems are developed by cloning in the specific antibody DNA sequences from immunoreactive rabbits. Then, individual clones are screened to select the best candidates for production. The advantages of using recombinant rabbit monoclonal antibodies include: better specificity and sensitivity, lot-to-lot consistency, animal origin-free formulations, and broader immunoreactivity to diverse targets due to larger rabbit immune repertoire.

## Product Images For ApoA1 Recombinant Rabbit Monoclonal Antibody (19H20L19)

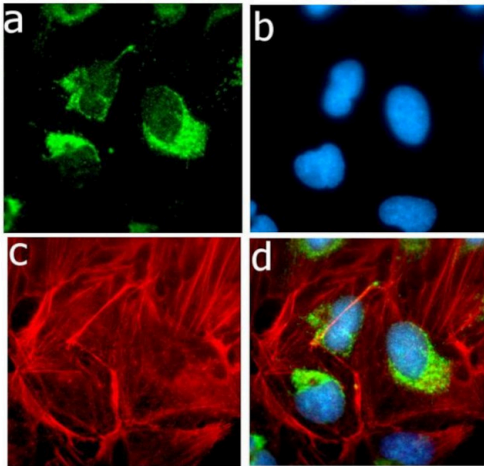
### ApoA1 Antibody (701239) in WB

Western blot analysis of ApoA1 in whole cell extracts from rat liver lysate (lane 1) and HepG2 lysates (lane 2) using an ApoA1 recombinant rabbit monoclonal antibody (Product # 701239) at a dilution of 2 µg/mL. Samples were detected using chemiluminescence (ECL). Results show a band at ~28kDa.



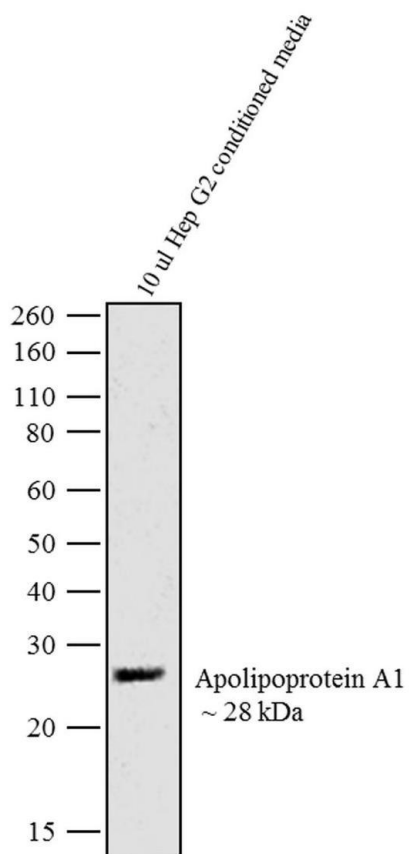
### ApoA1 Antibody (701239) in ICC/IF

Immunofluorescent analysis of ApoA1 in U2OS cells using an ApoA1 recombinant rabbit monoclonal antibody (Product # 701239) followed by detection using an Alexa Fluor 488-conjugated goat anti-rabbit secondary antibody (green) (Image A). Nuclei were stained using DAPI (Image B) and actin stained with Alexa Fluor 594 phalloidin (red) (image C). Image D is a composite image showing subcellular cytoplasmic localization of Apo A1.



### ApoA1 Antibody (701239) in WB

Western blot analysis was performed on 10  $\mu$ L Hep G2 conditioned media (Lane 1). The blot was probed with Anti-ApoA1 Rabbit Monoclonal Antibody (Product # 701239, 2  $\mu$ g/mL) and detected by chemiluminescence using Goat anti-Rabbit IgG (Heavy Chain) Superclonal Secondary Antibody, HRP conjugate (Product # A27036, 0.4  $\mu$ g/mL, 1:2500 dilution). A 28 kDa band corresponding to ApoA1 was observed across the cell line tested. Known quantity of protein samples were electrophoresed using Novex®NuPAGE®12 % Bis-Tris gel (Product # NP0342BOX), XCell SureLock Electrophoresis System (Product # EI0002) and Novex® Sharp Pre-Stained Protein Standard (Product # LC5800). Resolved proteins were then transferred onto a nitrocellulose membrane with iBlot® 2 Dry Blotting System (Product # IB21001). The membrane was probed with the relevant primary and secondary Antibody. Chemiluminescent detection was performed using Pierce™ ECL Western Blotting Substrate (Product # 32106).



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Western Blot (5)

<p>Nature communications</p> <p><b>Exosomal miR-1304-3p promotes breast cancer progression in African Americans by activating cancer-associated adipocytes.</b></p> <p>"701239 was used in Western Blotting to reveal a mechanism of the disparity in breast cancer progression and suggest a potential utility of miR-1304-3p and the associated SNP as biomarkers for predicting the outcome of African American patients."</p> <p>Authors: Zhao D,Wu K,Sharma S,Xing F,Wu SY,Tyagi A,Deshpande R,Singh R,Wabitsch M,Mo YY,Watabe K</p>	<p>Year 2022</p> <p>Species Mouse</p> <p>Dilution 1:500</p>
<p>International journal of molecular medicine</p> <p><b>MicroRNA34a5p expression in the plasma and in its extracellular vesicle fractions in subjects with Parkinson's disease: An exploratory study.</b></p> <p>"Published figure using ApoA1 recombinant monoclonal antibody (Product # 701239) in Western Blot"</p> <p>Authors: Grossi I,Radeghieri A,Paolini L,Porrini V,Pilotto A,Padovani A,Marengoni A,Barbon A,Bellucci A,Pizzi M,Salvi A,De Petro G</p>	<p>Year 2021</p> <p>Species Human</p> <p>Dilution 1:700</p>

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