ApoA2 Recombinant Rabbit Monoclonal Antibody (43H22L4)

Product Details	
Size	100 µg
Species Reactivity	Human, Rat
Host/Isotype	Rabbit / IgG
Expression system	Expi293
Class	Recombinant Monoclonal
Type	Antibody
Clone	43H22L4
Conjugate	Unconjugated
Immunogen	Peptide corresponding to amino acids 60-71 of human Apo A2
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_2532435

Applications	Tested Dilution	Publications
Western Blot (WB)	1-3 µg/mL	-
Immunocytochemistry (ICC/IF)	1-5 µg/mL	-

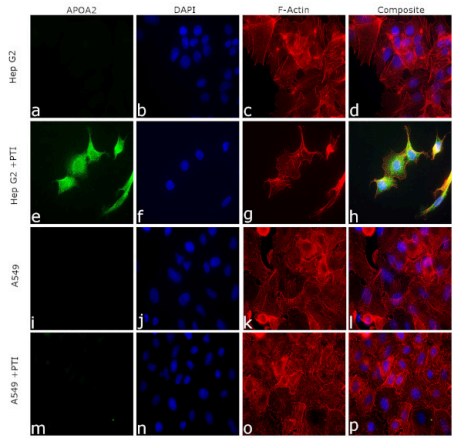
Product Specific Information

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

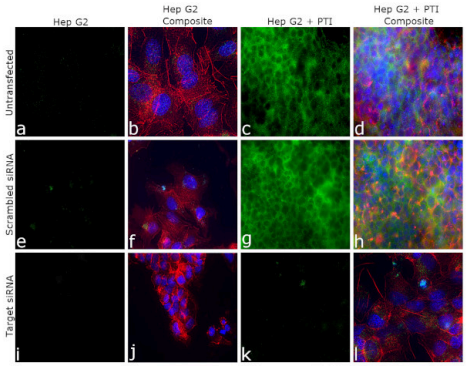
Intact IgG appears on a non-reducing gel as ~150 kDa band and upon reduction generating a ~25 kDa light chain band and a ~50 kDa heavy chain.

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.

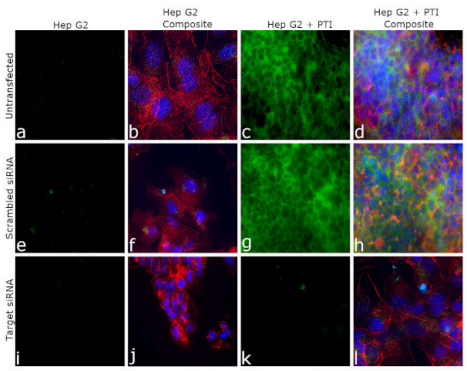
Product Images For ApoA2 Recombinant Rabbit Monoclonal Antibody (43H22L4)



ApoA2 Antibody (701236) in ICC/IF
Immunofluorescence analysis of Apolipoprotein A-II was performed using 70% confluent log phase Hep G2 cells. The cells were fixed with 4% paraformaldehyde for 10 minutes, permeabilized with 0.1% Triton™ X-100 for 15 minutes, and blocked with 2% BSA for 45 minutes at room temperature. The cells were labeled with ApoA2 Recombinant Rabbit Monoclonal Antibody (43H22L4) (Product # 701236) at 5 µg/mL in 0.1% BSA, incubated at 4 degree celsius overnight and then labeled with Donkey anti-Rabbit IgG (H+L) Highly Cross-Adsorbed Secondary Antibody, Alexa Fluor Plus 488 (Product # A32790), (1:2000 dilution), for 45 minutes at room temperature(Panel a, e ,i, m: Green). Nuclei (Panel b, f, j, n: Blue) were stained with ProLong™ Diamond Antifade Mountant with DAPI (Product # P36962). F-actin (Panel c, g, k, o: Red) was stained with Rhodamine Phalloidin (Product # R415, 1:300 dilution). Panel h represents the merged image showing cytoplasmic localization in Hep G2 cells treated with PTI. Panel d and l represents untreated cells of Hep G2 and A549 cells respectively, Panel P representes A549 cells treated with PTI. The images were captured at 60X magnification in EVOS™ M7000 Imaging System (Product # AMF7000) and externally deconvoluted (D.Sage et al. / Methods 115 (2017) 28-41).



ApoA2 Antibody (701236)
Antibody specificity was demonstrated by siRNA mediated knockdown of target protein. Hep G2 cells treated with PTI (1X for 4hrs) were transfected with Apolipoprotein A-II siRNA and decrease in signal intensity was observed in ICC application using Anti-ApoA2 Recombinant Rabbit Monoclonal Antibody (43H22L4) (Product # 701236). {KD}



ApoA2 Antibody (701236) in ICC/IF
Knockdown of Apolipoprotein A-II was achieved by transfecting Hep G2 cells with Apolipoprotein A-II specific siRNA (Silencer® select Product # s1470, s1471). Immunofluorescence analysis was performed on untransfected Hep G2 cells (panel a,b), untransfected Hep G2 cells treated with PTI (1X for 4hrs) (panel c, d), non-specific scrambled siRNA transfected Hep G2 cells (panels e,f), non-specific scrambled siRNA transfected Hep G2 cells treated with PTI (1X for 4hrs) (panels g,h), Hep G2 cells transfected with Apolipoprotein A-II specific siRNA (panel i,j), and Hep G2 cells transfected with Apolipoprotein A-II specific siRNA and then treated with PTI (1X for 4hrs) (panels k,l) (Green) Cells were fixed, permeabilized, and labelled with ApoA2 Recombinant Rabbit Monoclonal Antibody (43H22L4) (Product # 701236, 5 µg/mL) followed by Donkey anti-Rabbit IgG (H+L) Highly Cross-Adsorbed Secondary Antibody, Alexa Fluor Plus 488 (Product # A32790), (1:2000 dilution). Nuclei (blue) were stained using ProLong™ Diamond Antifade Mountant with DAPI (Product # P36962), and Rhodamine Phalloidin (Product # R415, 1:300 dilution) was used for cytoskeletal F-actin (Green) staining. Reduction in specific signal was observed upon siRNA mediated knockdown (panel k ,l) confirming specificity of the antibody to Apolipoprotein A-II .The images were captured at 60X magnification in EVOS™ M7000 Imaging System (Product # AMF7000) and externally deconvoluted (D. Sage et al. / Methods 115 (2017) 28-41).

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