Angiotensinogen Recombinant Rabbit Monoclonal Antibody (SD201-02)

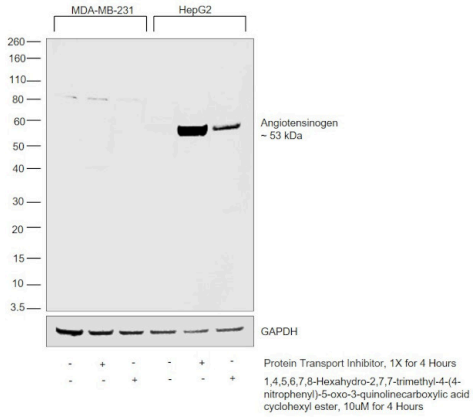
Product Details	
Size	100 µL
Species Reactivity	Human
Host/Isotype	Rabbit / IgG
Expression system	HEK293 cells
Class	Recombinant Monoclonal
Type	Antibody
Clone	SD201-02
Conjugate	Unconjugated
Immunogen	Recombinant protein Human Angiotensinogen aa 361-485
Form	Liquid
Concentration	1 mg/mL
Purification	Protein A
Storage buffer	TBS, pH 7.4, with 40% Glycerol, 0.05% BSA
Contains	0.05% sodium azide
Storage conditions	Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.
RRID	AB_2809653

Applications	Tested Dilution	Publications
Western Blot (WB)	1:100-1:1,000	-
Immunocytochemistry (ICC/IF)	1:50-1:200	-

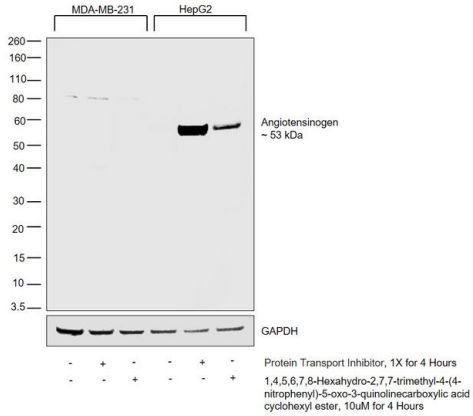
Product Specific Information

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.

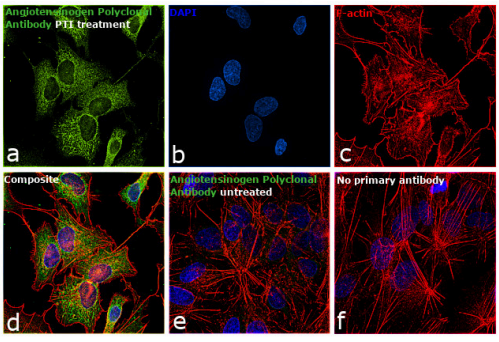
Product Images For Angiotensinogen Recombinant Rabbit Monoclonal Antibody (SD201-02)



Angiotensinogen Antibody (MA5-32372)
Antibody specificity was demonstrated by detection of differential basal expression of the target across cell lines owing to their inherent genetic constitution. Relative expression of Angiotensinogen was observed in HepG2 cells treated with secretion blockers as compared to MDA-MB-231 cells treated with secretion blockers using Anti-Angiotensinogen Rabbit Monoclonal Antibody (Product # MA5-32372) in western blot. {RE}



Angiotensinogen Antibody (MA5-32372) in WB
Western blot was performed using Anti-Angiotensinogen Rabbit Monoclonal Antibody (Product # MA5-32372) and a 53 kDa band corresponding to Angiotensinogen was observed in HepG2 cells upon treatment with secretion blockers. Angiotensinogen is readily secreted out in the medium after translation and post processing. Treatment of cells with secretion blockers sequesters Angiotensinogen in the endoplasmic reticulum. The 53 kDa band corresponding to Angiotensinogen was absent in the negative cell model, MDA-MB-231 where non specific bands were observed. Whole cell extracts (30 µg lysate) of MDA-MB-231 untreated (Lane 1), treated with Protein Transport Inhibitor (Lane 2) or 1,4,5,6,7,8-Hexahydro-2,7,7-trimethyl-4-(4-nitrophenyl)-5-oxo-3-quinolinecarboxylic acid cyclohexyl ester (Lane 3), HepG2 untreated (Lane 4) or treated with Protein Transport Inhibitor (Lane 5) or 1,4,5,6,7,8-Hexahydro-2,7,7-trimethyl-4-(4-nitrophenyl)-5-oxo-3-quinolinecarboxylic acid cyclohexyl ester (Lane 6) were electrophoresed using Novex® NuPAGE® 12 % Bis-Tris gel (Product # NP0342BOX). Resolved proteins were then transferred onto a nitrocellulose membrane (Product # IB23001) by iBlot® 2 Dry Blotting System (Product # IB21001). The blot was probed with the primary antibody (2 µg/mL) and detected by chemiluminescence with Goat anti-Rabbit IgG (Heavy Chain), Superclonal™ Recombinant Secondary Antibody, HRP (Product # A27036, 1: 4000 dilution) using the iBright FL 1000 (Product # A32752).



Angiotensinogen Antibody (MA5-32372) in ICC/IF
Immunofluorescence analysis of Angiotensinogen was performed using 70% confluent log phase Hep G2 cells treated with 1X protein transport inhibitor (Product # 00-4980-03) for 4 hours. Angiotensinogen is readily secreted out in the medium after translation and post processing. Treatment of cells with protein transport inhibitor sequesters Angiotensinogen in the endoplasmic reticulum. 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 1 hour at room temperature. The cells were labeled with Angiotensinogen Monoclonal Antibody (Product # MA5-32372) at 1:200 dilution in 0.1% BSA, incubated at 4 degree Celsius overnight and then labeled with Goat anti-Rabbit IgG (Heavy Chain), Superclonal™ Recombinant Secondary Antibody, Alexa Fluor 488 (Product # A27034) at a dilution of 1:2000 for 45 minutes at room temperature (Panel a: green). Nuclei (Panel b: blue) were stained with ProLong™ Diamond Antifade Mountant with DAPI (Product # P36962). F-actin (Panel c: red) was stained with Rhodamine Phalloidin (Product # R415). Panel d represents the merged image showing ER membrane/cytoplasmic localization. Panel e represents untreated HepG2 cells. Panel f represents control cells with no primary antibody to assess background. The images were captured at 60X magnification.

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