ACE2 Recombinant Rabbit Monoclonal Antibody (SN0754)

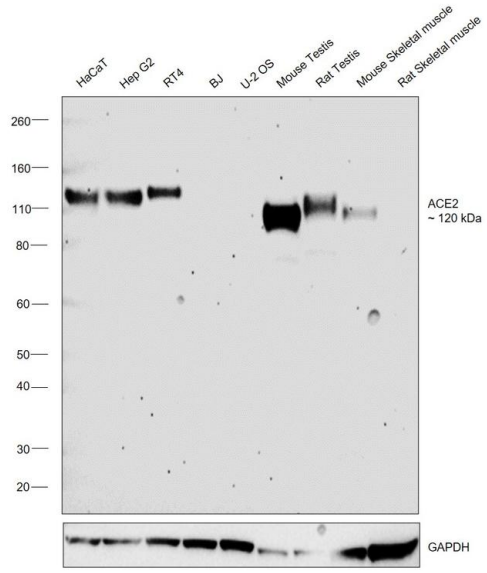
Product Details	
Size	100 µL
Species Reactivity	Human, Mouse, Rat
Published Species	Human, Mouse
Host/Isotype	Rabbit / IgG
Expression system	HEK293 cells
Class	Recombinant Monoclonal
Type	Antibody
Clone	SN0754
Conjugate	Unconjugated
Immunogen	Synthetic peptide within Human ACE2 aa 181-230
Form	Liquid
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_2809589

Applications	Tested Dilution	Publications
Western Blot (WB)	1:1,000-1:5,000	6 Publications
Immunohistochemistry (IHC)	1:50-1:200	5 Publications
Immunocytochemistry (ICC/IF)	1:100-1:500	5 Publications
Flow Cytometry (Flow)	-	3 Publications

Product Specific Information

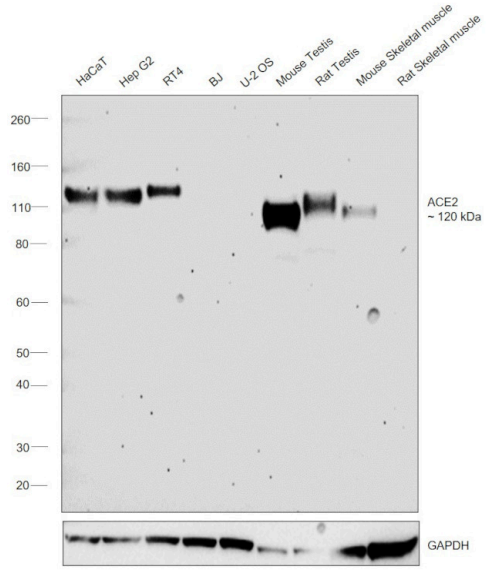
Recombinant rabbit monoclonal antibodies are produced using in vitro expression systems. The expression systems are developed by cloning in the specific antibody DNA sequences from immunoreactive rabbits. Then, individual clones are screened to select the best candidates for production. The advantages 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 ACE2 Recombinant Rabbit Monoclonal Antibody (SN0754)



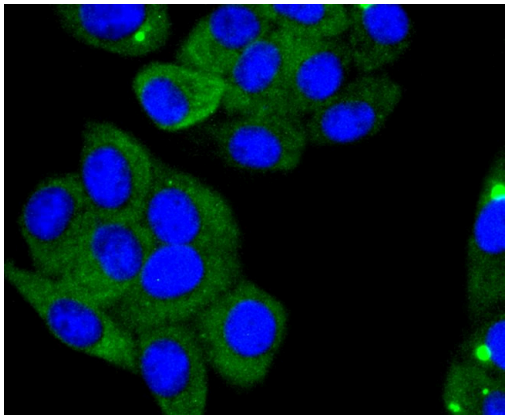
ACE2 Antibody (MA5-32307) in WB

Western Blot was performed using Anti-ACE2 Recombinant Rabbit Monoclonal Antibody (SN0754) (Product # MA5-32307) and a 120 kDa band corresponding to Angiotensin-converting enzyme 2 was observed across all cell lines and tissues tested except in BJ, U2-OS, Mouse Skeletal Muscle and Rat Skeletal Muscle which are known to be low expressing (DOI: 10.3892/mmr.2014.2266, 10.1038/s41433-020-0939-4). Membrane enriched extracts (50 µg lysate) of HaCaT (Lane 1), Hep G2 (Lane 2), RT-4 (Lane 3), BJ (Lane 4), U-2 OS (Lane 5), Mouse Testis (Lane 6), Rat Testis (Lane 7), Mouse Skeletal Muscle (Lane 8) and Rat Skeletal Muscle (Lane 9) were electrophoresed using NuPAGE™ 4-12% Bis-Tris Protein Gel (Product # NP0321BOX). 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 (1:1000 dilution) 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). Chemiluminescent detection was performed using Novex® ECL Chemiluminescent Substrate Reagent Kit (Product # WP20005).



ACE2 Antibody (MA5-32307)

Antibody specificity was demonstrated by detection of differential basal expression of the target across all cell lines and tissues tested owing to their inherent genetic constitution. Relative expression of Angiotensin-converting enzyme 2 was observed in HaCaT, Hep G2 , RT4, Mouse Testis and Rat Testis but not in BJ, U-2 OS, Mouse Skeletal Muscle and Rat Skeletal Muscle which are known to have comparatively lower expression (DOI: 10.3892/mmr.2014.2266, 10.1038/s41433-020-0939-4) using Anti-ACE2 Recombinant Rabbit Monoclonal Antibody (SN0754) (Product # MA5-32307) in Western Blot. {RE}



ACE2 Antibody (MA5-32307) in ICC/IF

Immunocytochemical analysis of ACE2 in HepG2 cells using a ACE2 Monoclonal antibody (Product # MA5-32307) as seen in green. The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.

View more figures on thermofisher.com

19 References

Western Blot (6)

The Journal of experimental medicine

SARS-CoV-2 Spike protein suppresses CTL-mediated killing by inhibiting immune synapse assembly.

"MA5-32307 was used in Western Blotting to highlight a new strategy of immune evasion by SARS-CoV-2 based on the Spike-dependent, ACE2-mediated targeting of the lytic IS to prevent elimination of infected cells."

Authors: Onnis A,Andreano E,Cassioli C,Finetti F,Della Bella C,Staufer O,Pantano E,Abbiento V,Marotta G,D'Elios MM, Rappuoli R,Baldari CT

Year 2023

Species Human

Antiviral research

Selinexor, a novel selective inhibitor of nuclear export, reduces SARS-CoV-2 infection and protects the respiratory system in vivo.

"Published figure using ACE2 recombinant monoclonal antibody (Product # MA5-32307) in Western Blot"

Authors: Kashyap T,Murray J,Walker CJ,Chang H,Tamir S,Hou B,Shacham S,Kauffman MG,Tripp RA,Landesman Y

Year 2021

Species Human

Dilution 1:50

View more WB references on thermofisher.com

Immunohistochemistry (5)

EBioMedicine

COVID-19 mRNA vaccine protects against SARS-CoV-2 Omicron BA.1 infection in diet-induced obese mice through boosting host innate antiviral responses.

"MA5-32307 was used in Immunohistochemistry to suggest that COVID-19 mRNA vaccination enhances host innate antiviral responses in obesity which protect the DIO mice to a certain degree when adaptive immunity is suboptimal."

Authors: Chen Y,Song W,Li C,Wang J,Liu F,Ye Z,Ren P,Tong Y,Li J,Ou Z,Lee AC,Cai JP,Wong BH,Chan JF,Yuen KY, Zhang AJ,Chu H

Year 2023

Species Mouse

Communications biology

Spike protein multiorgan tropism suppressed by antibodies targeting SARS-CoV-2.

"MA5-32307 was used in Immunohistochemistry to show that SARS-CoV-2 spike protein had a body-wide biodistribution, slow regional elimination, except for the liver, which showed an accumulation, and differential organ uptake."

Authors: Brady M,McQuaid C,Solorzano A,Johnson A,Combs A,Venkatraman C,Rahman A,Leyva H,Kwok WE,Wood RW,Deane R

Year 2021

Species Mouse

Dilution 1:100

View more IHC references on thermofisher.com

More applications with references on thermofisher.com

ICC/IF (5) **Flow (3)**