Performance guarenteed'



Product Details

Size	100 μL
Species Reactivity	Human
Published Species	Non-human primate, Human
Host/Isotype	Mouse / IgG1
Class	Monoclonal
Туре	Antibody
Clone	CL4035
Conjugate	Unconjugated
Immunogen	Recombinant protein corresponding to Human ACE2
Form	Liquid
Concentration	1 mg/mL
Purification	Protein A
Storage buffer	PBS, pH 7.2, with 40% glycerol
Contains	0.02% sodium azide
Storage conditions	Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.
RRID	AB_2787031

Applications	Tested Dilution	Publications
Western Blot (WB)	1 µg/mL	2 Publications
Immunohistochemistry (IHC)	1:20,000-1:50,000	4 Publications
Immunocytochemistry (ICC/IF)	-	2 Publications
Flow Cytometry (Flow)	-	1 Publication

Product Specific Information

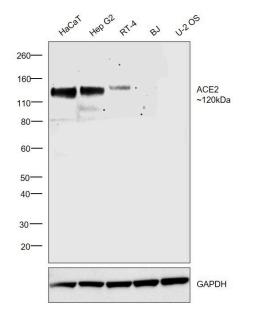
Immunogen sequence: MSSSSWLLLS LVAVTAAQST IEEQAKTFLD KFNHEAEDLF YQSSLASWNY NTNITEENVQ NMNNAGDKWS AFLKEQSTLA QMYPLQEIQN LTVKLQLQAL QQNGSSVLSE D

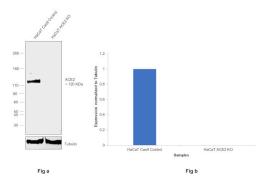
Product Images For ACE2 Monoclonal Antibody (CL4035)

1

ACE2 Antibody (MA5-31395)

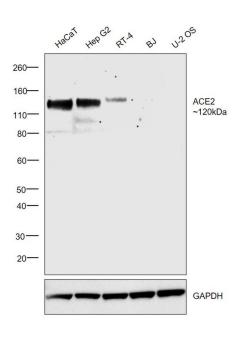
Antibody specificity was demonstrated by detection of differential basal expression of the target across cell lines owing to their inherent genetic constitution. Relative expression of Angiotensin-converting enzyme 2 was observed in HaCaT, Hep G2 and RT4 but not in BJ and U-2 OS (DOI: 10.3892 /mmr.2014.2266) using Anti-ACE2 Monoclonal Antibody (CL4035) (Product # MA5-31395) in Western Blot. {RE}





ACE2 Antibody (MA5-31395)

Antibody specificity was demonstrated by CRISPR-Cas9 mediated knockout of target protein. A loss of signal was observed for target protein inACE2 KO cell line compared to control cell line using Anti-ACE2 Monoclonal Antibody (CL4035) (Product # MA5-31395). {KO}



ACE2 Antibody (MA5-31395) in WB

Western Blot was performed using Anti-ACE2 Monoclonal Antibody (CL4035) (Product # MA5-31395) and a 120 kDa band corresponding to Angiotensinconverting enzyme 2 was observed across all cell lines tested except BJ and U-2 OS which are known to be low expressing (DOI: 10.3892/mmr.2014.2266). Membrane enriched extracts (50 µg lysate) of HaCaT (Lane 1), Hep G2 (Lane 2), RT-4 (Lane 3), BJ (Lane 4) and U-2 OS (Lane 5) were electrophoresed using NuPAGETM 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 µg/mL dilution) and detected by chemiluminescence with Goat anti-Mouse IgG (H+L) SuperclonalTM Recombinant Secondary Antibody, HRP (Product # A28177, 1:4000 dilution) using the iBright FL 1000 (Product # A32752). Chemiluminescent detection was performed using Novex® ECL Chemiluminescent Substrate Reagent Kit (Product # WP20005).

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9 References

Western Blot (2)

Cells

GLP-1 Mediates Regulation of Colonic ACE2 Expression by the Bile Acid Receptor GPBAR1 in Inflammation.

"Published figure using ACE2 monoclonal antibody (Product # MA5-31395) in Western Blot"

Authors: Biagioli M,Marchianò S,Roselli R,Di Giorgio C,Bellini R,Bordoni M,Distrutti E,Catalanotti B,Zampella A,Graziosi L,Donini A,Fiorucci S

Biomedicines Hydrogen Sulfide Inhibits TMPRSS2 in Human Airway Epithelial Cells:	Year 2021	
Implications for SARS-CoV-2 Infection.	Species	
"MA5-31395 was used in Western Blotting to suggest that inhalational exposure of respiratory epithelial cells to natural H2S sources may hinder SARS-CoV-2 entry into airway epithelial cells and, consequently, potentially prevent the virus from spreading into the lower respiratory tract and the lung."	Human Dilution	
Authors: Pozzi G,Masselli E,Gobbi G,Mirandola P,Taborda-Barata L,Ampollini L,Carbognani P,Micheloni C,Corazza F, Galli D,Carubbi C,Vitale M	1:1,000	

Immunohistochemistry (4)

Cancers	
Significance of Furin Expression in Thyroid Neoplastic Transformation.	2023
"MA5-31395 was used in Immunohistochemistry to show the mRNA downregulation of ACE2 and overexpression of Furin in thyroid neoplasms."	Species Human
Authors: Azevedo MT, Macedo S, Canberk S, Cardoso L, Gaspar TB, Pestana A, Batista R, Sobrinho-Simões M, Soares P	Dilution 1:2,500

European thyroid journal Detection of SARS-CoV-2 infection in thyroid follicular cells from a	Year 2022
COVID-19 autopsy series.	Species Human
"Published figure using ACE2 monoclonal antibody (Product # MA5-31395) in Immunohistochemistry" Authors: Macedo S,Pestana A,Santos L,Neves C,Guimarães S,Duarte-Neto A,Dolhnikoff M,Saldiva P,Alves G,Oliveira R,Cabanes D,Carneiro F,Sobrinho-Simões M,Soares P	Dilution 1:2500

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Year 2022

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ICC/IF (2) Flow (1)