

ACE2 / Angiotensin I Converting Enzyme 2 Antibody

Mouse Monoclonal Antibody [Clone ACE2/7202]

Catalog No	Format	Size
59272-MSM2-P0	Purified Ab with BSA and Azide at 200ug/ml	20 ug
59272-MSM2-P1	Purified Ab with BSA and Azide at 200ug/ml	100 ug
59272-MSM2-P1ABX	Purified Ab WITHOUT BSA and Azide at 1.0mg/ml	100 ug

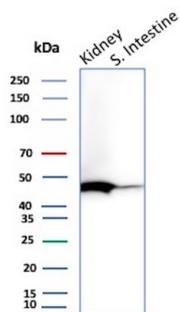
Applications	Tested Dillution	Note
Immunohistochemistry (IHC)	1-2ug/ml	30 min at RT. Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95°C followed by cooling at RT for 20 minutes
Western Blot (WB)	2-4ug/ml	

Product Details

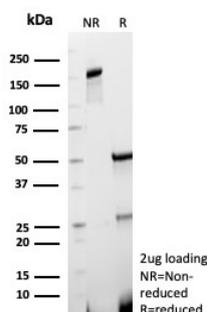
Clone	ACE2/7202
Gene Name	ACE2
Immunogen	Recombinant fragment (around aa1-300) of human ACE2 (exact sequence is proprietary)
Host	Mouse
Clonality	Monoclonal
Isotype / Light Chain	IgG1 / Kappa
Mol. Weight of Antigen	92kDa
Cellular Localization	Cell membrane, Secreted
Species Reactivity	Human
Positive Control	Human kidney, heart, testis or small intestine.

*Optimal dilution for a specific application should be determined.

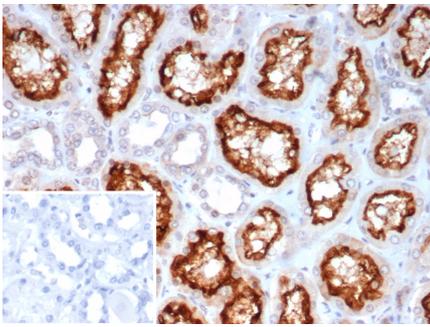
Product Images for ACE2 / Angiotensin I Converting Enzyme 2 Antibody



Western blot analysis of human kidney and small intestine tissue lysates using ACE2 Mouse Monoclonal Antibody (ACE2/7202). Observed: 50kDa; Expected: 92kDa



SDS-PAGE Analysis of Purified ACE2 Mouse Monoclonal Antibody (ACE2/7202). Confirmation of Purity and Integrity of Antibody.



Formalin-fixed, paraffin-embedded human kidney stained with ACE2 Mouse Monoclonal Antibody (ACE2/7202). Inset: PBS instead of primary antibody; secondary only negative control.

Specificity & Comments

Carboxypeptidase which converts angiotensin I to angiotensin 1-9, a peptide of unknown function, and angiotensin II to angiotensin 1-7, a vasodilator. Also able to hydrolyze apelin-13 and dynorphin-13 with high efficiency. By cleavage of angiotensin II, may be an important regulator of heart function. By cleavage of angiotensin II, may also have a protective role in acute lung injury. Plays an important role in amino acid transport by acting as binding partner of amino acid transporter SL6A19 in intestine, regulating trafficking, expression on the cell surface, and its catalytic activity. In case of human coronaviruses SARS and HCoV-NL63 infections, serve as functional receptor for the spike glycoprotein of both coronaviruses.

Limitations and Warranty

This antibody is available for research use only and is not approved for use in diagnosis. There are no warranties, expressed or implied, which extend beyond this description. Company is not liable for any personal injury or economic loss resulting from this product.

Supplied As

200ug/ml of Ab purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.

Storage and Stability

Antibody with azide - store at 2 to 8°C. Antibody without azide - store at -20 to -80°C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.

Research Areas

Cardiovascular, Infectious Disease
