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Anti-ACE2 Mouse mAb [81D24]

Catalog No.: A33001

Basic Information

Catalog No. (Cat.No.)	A33001
Host species	Mouse
Reactivity	Human,Mouse,Rat
Applications	WB,IHC,ICC/IF,IF-P,ELISA
Synonyms	ACE2,ACEH

Product Information

Target	ACE2
Molecular Weight(Calculated)	92 kDa,52 kDa
Molecular Weight(Observed)	55 kDa
Isotype	IgG
Conjugation	NA
Concentration	1 mg/ml
Clonality	Monoclonal
Clone No.	81D24
RRID	NA
Storage buffer	0.05% preservative in PBS (pH 7.2-7.4)
Storage	Stored at -20°C for 1 year. Avoid repeated freeze / thaw cycles.
Shipped at conditions	Frozen
Form	Liquid

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Product Usage Information

Application	Dilution
WB	1:1000-1:2000
IHC	1:200-1:2000
ICC/IF	1:100-1:500
IF-P	1:200-1:2000
ELISA	1:5000-1:20000

Target Information

Protein Name	Angiotensin-converting enzyme-2
Gene Name	*ACE2*
Domain	Full length
Background	ACE2 (Angiotensin-converting enzyme 2) belongs to the angiotensin-converting enzyme family and mediates negative regulation of the renin-angiotensin system. ACE2 is a membrane-bound carboxypeptidase predominantly expressed on pulmonary, cardiac, renal and intestinal epithelial cells. It catalyzes conversion of angiotensin II into angiotensin 1-7, counteracting ACE-driven vasoconstriction and inflammation to exert protective effects that maintain cardiovascular, pulmonary and renal homeostasis. ACE2 also serves as the functional receptor for coronavirus entry, as SARS-CoV and SARS-CoV-2 spike proteins bind ACE2 to mediate viral infection, making ACE2 central to COVID-19 infection mechanisms. Its expression level and proteolytic shedding modulate viral susceptibility. ACE2 is widely studied in cardiovascular disease, lung injury, viral infection and drug-target researches.