

Anti Human ACE2 Mouse Monoclonal Antibody

CATALOG NUMBER: ACE2-Mab11

Introduction	Angiotensin converting enzyme 2 (ACE2) is an enzyme attached to the outer surface (cell membranes) of cells in the lungs, arteries, heart, kidney, and intestines. ACE2 lowers blood pressure by catalysing the cleavage of angiotensin II (a vasoconstrictor peptide) into angiotensin (1–7) (a vasodilator). ACE2 also serves as the entry point into cells for some coronaviruses, including HCoV-NL63, SARS-CoV and SARS-CoV-2. More specifically, the binding of the spike S1 protein of SARS-CoV and SARS-CoV-2 to the enzymatic domain of membrane bound ACE2 on the surface of cells results in endocytosis and translocation of both the virus and the enzyme into endosomes located within cells.
Applications	WB (1:2-8k), ELISA (1:4-8k), IHC (1:50-100). May be used for other applications
Description	Mouse monoclonal anti-ACE2 antibody
Immunogen	Recombinant protein of human ACE2 (aa 19-740) (Gene Accession#: Q9BYF1)
Specificity	Reacts with human ACE2 protein
Purification	Protein G chromatography
Isotype	IgG1
Storage	Store at -20 °C; Stable for 3 months from the date of shipment when kept at 4 °C.
Concentration	0.5 mg/ml in PBS, 0.05% proclin300, 50% glycerol