Angiotensin Converting Enzyme 2 (ACE2) Polyclonal Antibody

ORDERING INFORMATION

Catalog No.: 19503
Size: 100ul (1mg/ml)
Format: Antigen affinity-purified antibody in PBS, 0.02% sodium azide.

BACKGROUND

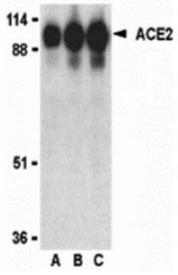
Angiotensin-converting enzyme 2 (ACE2) is a zinc containing metalloenzyme located on the surface of endothelial and other cells in the lungs, arteries, heart, kidney, and intestines. The primary function of ACE2 is to offset activity of angiotensin-converting enzyme (ACE). ACE cleaves angiotensin I into the vasoconstrictor angiotensin II. ACE2 in turn cleaves angiotensin II into the vasodilator angiotensin 1–7. In addition, ACE2 is the main entry point into cells for some coronaviruses including HCoV-NL63, SARS-CoV (the coronavirus that causes SARS) and SARS-CoV-2 (the coronavirus that causes COVID-19). More precisely, the binding of the spike S1 protein of SARS-CoV and SARS-CoV2 to the enzymatic domain of ACE2 on the surface of cells results in endocytosis and translocation of both the virus and the enzyme into endosomes located within cells.

SPECIFICATION SUMMARY

Antigen: Synthetic peptide corresponding to amino acids near the center of human ACE2 protein.
Accession no.: Q9BYF1
Gene ID: 59272
Host Species: Rabbit
Specificity: Human and mouse ACE2. Does not cross-react with ACE1.

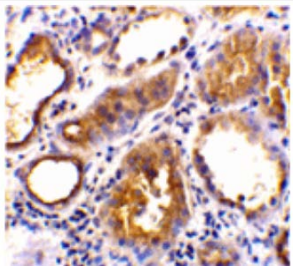
APPLICATION

Immunoblotting: use at 0.5-2ug/ml. A band of ~92kDa is detected.



Detection of ACE2 in human kidney lysate with #19503 at (A) 0.5, (B)1, and (C) 2ug/ml.

IHC: use at 2ug/ml.



Detection of ACE2 in paraffin-embedded human kidney with #19503 at 2ug/ml.

These are recommended concentrations. Endusers should determine optimal dilutions for their applications

STORAGE AND STABILITY

This antibody is stable for at least one (1) year at -20°C. Store product in appropriate aliquots to avoid multiple freeze-thaw cycles.

For in vitro investigational use only. Not for use in therapeutic or diagnostic procedures.