

ACE2 Monoclonal Antibody(Capture)

catalog number: AN001670P

Note: Centrifuge before opening to ensure complete recovery of vial contents.

Description

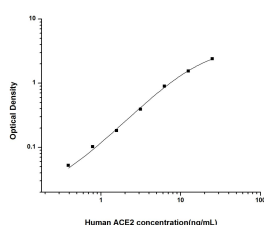
Reactivity	Human
Immunogen	Recombinant Human ACE2 protein expressed by Mammalian
Host	Rat
Isotype	Rat IgG1
Clone	3G5
Purification	Protein A/G Purification
Conjugation	Unconjugated
buffer	Phosphate buffered solution, pH 7.2, containing 0.05% proclin 300.

Applications

Recommended Dilution

ELISA Capture	2-8 µg/mL
----------------------	-----------

Data



Sandwich ELISA-Recombinant Human ACE2 protein standard curve. Background subtracted standard curve using ACE2 antibody(AN001670P)(Capture), ACE2 antibody(AN001680P)(Detector) in sandwich ELISA. The reference range value for Recombinant Human ACE2 protein is 0.39-25 ng/mL.

Preparation & Storage

Storage	Store at 4°C valid for 12 months or -20°C valid for long term storage, avoid freeze / thaw cycles.
Shipping	The product is shipped with ice pack, upon receipt, store it immediately at the temperature recommended.

Background

ACE2 (Angiotensin-converting enzyme 2), also named as ACEH, is a zinc metalloprotease of the ACE family and a critical regulator of the renin-angiotensin system. ACE2 has a more restricted tissue distribution than ACE, being found predominantly in the heart, kidneys, and testes although low levels have been detected in a variety of tissues. ACE2 has been shown to be a functional receptor of the human coronaviruses SARS-CoV and SARS-CoV-2. The expression level and expression pattern of human ACE2 in different tissues might be critical for the susceptibility, symptoms, and outcome of 2019-nCoV/SARS-CoV-2 infection. It can be used as a potential therapeutic target of SARS-CoV-2. The calculated molecular weight of ACE2 is 92kDa but it migrates to 120kDa due to N-glycosylation. Sometimes, several cleaved fragments can also be detected as 75kDa, 50kDa or 37kDa. It has 2 isoforms produced by alternative splicing. This antibody is specific to ACE2. The location of ACE2 is membrane and cytoplasm, however it accumulates in the nucleus during the mitosis.

For Research Use Only