

ACE2 Monoclonal Antibody(Detector)

catalog number: AN001680P

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

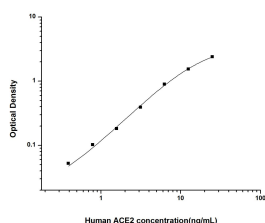
Description

Reactivity	Human
Immunogen	Recombinant Human ACE2 protein expressed by Mammalian
Host	Rat
Isotype	Rat IgG2a
Clone	1G5
Purification	Protein A/G Purification
Buffer	Phosphate buffered solution, pH 7.2, containing 0.05% Proclin300.

Applications Recommended Dilution

ELISA Detector	0.1-0.4 µg/mL
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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

For Research Use Only

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, 50 kDa 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.