

## ACE2 Monoclonal Antibody(Detector)

**catalog number: AN001680P**

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

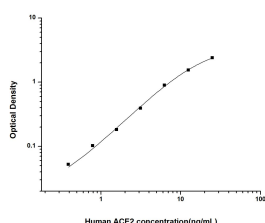
### Description

<b>Reactivity</b>	Human
<b>Immunogen</b>	Recombinant Human ACE2 protein expressed by Mammalian
<b>Host</b>	Rat
<b>Isotype</b>	Rat IgG2a
<b>Clone</b>	1G5
<b>Purification</b>	Protein A/G Purification
<b>Buffer</b>	Phosphate buffered solution, pH 7.2, containing 0.05% proclin 300.

### Applications

<b>ELISA Detector</b>	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

<b>Storage</b>	Store at 4°C valid for 12 months or -20°C valid for long term storage, avoid freeze / thaw cycles.
<b>Shipping</b>	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.

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