

## 12-9037: Anti-ACE2 antibody(DM47), Rabbit mAb

|                                |  |
|--------------------------------|--|
| <b>Clonality :</b>             | Monoclonal   |
| <b>Clone Name :</b>            | DM47   |
| <b>Application :</b>           | ELISA,FACS   |
| <b>Reactivity :</b>            | Human  |
| <b>Alternative Name :</b>      | ACE-2, ACEH, ACE2  |
| <b>Isotype :</b>               | Rabbit IgG   |
| <b>Immunogen Information :</b> | Recombinant human ACE2 (Gln18-Ser740) produced by using human HEK293 cells |

### Description

The protein encoded by this gene belongs to the angiotensin-converting enzyme family of dipeptidyl carboxypeptidases and has considerable homology to human angiotensin 1 converting enzyme. This secreted protein catalyzes the cleavage of angiotensin I into angiotensin 1-9, and angiotensin II into the vasodilator angiotensin 1-7. The organ- and cell-specific expression of this gene suggests that it may play a role in the regulation of cardiovascular and renal function, as well as fertility. In addition, the encoded protein is a functional receptor for the spike glycoprotein of the human coronaviruses SARS and HCoV-NL63.

### Product Info

|                            |   |
|----------------------------|---|
| <b>Amount :</b>            | 100 µg  |
| <b>Purification :</b>      | Purified from cell culture supernatant by affinity chromatography                                 |
| <b>Content :</b>           | Preservative: 0.1% Proline 300<br>Constituents: 50% Glycerol; PBS,pH 7.4; 0.1% BSA<br>Not Sterile |
| <b>Storage condition :</b> | Store at -20°C for 12 months (Avoid repeated freezing and thawing)                                |

### Application Note

Recommended Dilutions ELISA 1/5000-10000;FACS 1/100

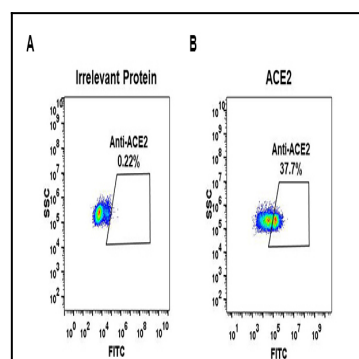


Figure 1. Expi 293 cell line transfected with irrelevant protein (left) and human ACE2 (right) were surface stained with Rabbit anti-ACE2 monoclonal antibody 1µg/ml (clone: DM47) followed by Alexa 488-conjugated anti-rabbit IgG secondary antibody.

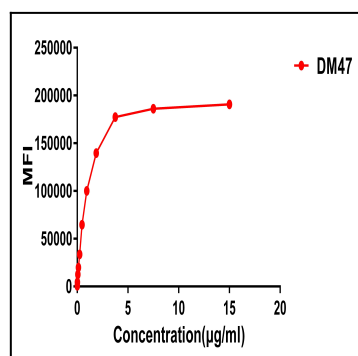


Figure 2. FACS data of serially titrated Rabbit anti-ACE2 monoclonal antibody (clone: DM47) on Expi 293 cell line transfected with human ACE2. The Y-axis represents the mean fluorescence intensity (MFI) while the X-axis represents the concentration of IgG used.

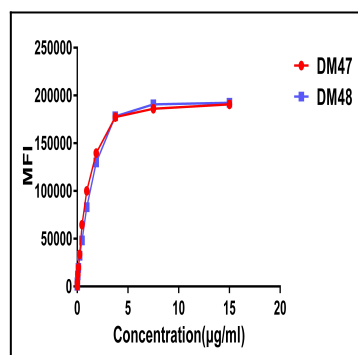


Figure 3. Affinity ranking of different Rabbit anti-ACE2 mAb clones by titration of different concentration onto Expi 293 cell line transfected with human ACE2. The Y-axis represents the mean fluorescence intensity (MFI) while the X-axis represents the concentration of IgG used.