

A Reliable Research Partner in Life Science and Medicine

## **Recombinant ACE2 Monoclonal Antibody**

catalog number: AN300026P

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

#### Description

Reactivity Human

Immunogen Recombinant Human ACF2 Protein

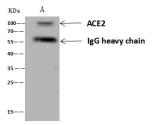
Host Rabbit Isotype lgG Clone A1136 **Purification** Protein A

Buffer 0.2 µm filtered solution in PBS

#### **Applications Recommended Dilution**

1:500-1:2000 WB ΙP 1-5 µL/mg of lysate

#### Data



100-Western Blot with ACE2 Monoclonal Antibody at dilution of

KDa

Immunoprecipitation analysis using 4 µL anti-ACE2 Monoclonal Antibody and 60 µg of Immunomagnetic beads 1:500. Lane A: K562 Whole Cell Lysate, Lysates/proteins at Protein A/G. Western blot was performed from the immunoprecipitate using ACE2 Monoclonal Antibody at a dilution of 1:100. Lane A:0.5 mg K562 Whole Cell Lysate

30 µg per lane. Observed-MW:100 kDa Calculated-MW:92 kDa

Rev. V1.3

Observed-MW:100 kDa Calculated-MW:92 kDa

#### **Preparation & Storage**

Storage This antibody can be stored at 2°C-8°C for one month without detectable loss of

activity. Antibody products are stable for twelve months from date of receipt when

stored at -20°C to -80°C. Preservative-Free. Avoid repeated freeze-thaw cycles.

**Shipping** Ice bag

#### **Background**

### For Research Use Only

Toll-free: 1-888-852-8623 Fax: 1-832-243-6017 Tel: 1-832-243-6086 Web: www.elabscience.com Email: techsupport@elabscience.com

# **Elabscience**®

#### **Elabscience Bionovation Inc.**

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Essential counter-regulatory carboxypeptidase of the renin-angiotensin hormone system that is a critical regulator of blood volume, systemic vascular resistance, and thus cardiovascular homeostasis. Converts angiotensin I to angiotensin 1-9, a nine-amino acid peptide with anti-hypertrophic effects in cardiomyocytes, and angiotensin II to angiotensin 1-7, which then acts as a beneficial vasodilator and anti-proliferation agent, counterbalancing the actions of the vasoconstrictor angiotensin II. Also removes the C-terminal residue from three other vasoactive peptides, neurotensin, kinetensin, and des-Arg bradykinin, but is not active on bradykinin. Also cleaves other biological peptide s, such as apelins (apelin-13, [Pyr1]apelin-13, apelin-17, apelin-36), casomorphins (beta-casomorphin-7, neocasomorphin) and dynorphin A with high efficiency. In addition, ACE2 C-terminus is homologous to collectrin and is responsible for the trafficking of the neutral amino acid transporter SL6A19 to the plasma membrane of gut epithelial cells via direct interaction, regulating its expression on the cell surface and its catalytic activity. Acts as a receptor for human coronaviruses SARS-CoV and SARS-CoV-2, as well as human coronavirus NL63/HCoV-NL63.

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