

Anti-ACE2 Polyclonal Antibody 6

Product Details

Ig Type:	IgG
Reactivity:	Human, Mouse (predicted: Rat, Chicken, Dog, Pig, Cow, Horse, Rabbit, Bat)
Molecular Weight:	Theoretical: 87 kDa. Actual: 120 kDa.
Purification:	Protein A purified

Applications

1. Sample:

Lane 1: Testis (Mouse) Lysate at 40 µg
Lane 2: Ovary (Mouse) Lysate at 40 µg
Lane 3: SH-SY5Y (Human) Cell Lysate at 30 µg
Lane 4: HepG2 (Human) Cell Lysate at 30 µg
Lane 5: A431 (Human) Cell Lysate at 30 µg
Primary: Anti-ACE2 (TMAB-02201) at 1/1000 dilution
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution
Predicted band size: 120 kD
Observed band size: 120 kD

2. Blank control: HepG2.

Primary Antibody (green line): Rabbit Anti-ACE2 antibody (TMAB-02201)
Dilution: 2 µg / 10⁶ cells;
Isotype Control Antibody (orange line): Rabbit IgG.
Secondary Antibody: Goat anti-rabbit IgG-AF488
Dilution: 1 µg / test.

Protocol

Verified Activity:

The cells then incubated in 5% BSA to block non-specific protein-protein interactions for 30 min at room temperature. Cells stained with Primary Antibody for 30 min at room temperature. The secondary antibody used for 40 min at room temperature. Acquisition of 10,000 events was performed.

3. A431 cell; 4% Paraformaldehyde-fixed; Triton X-100 at room temperature for 20 min; Blocking buffer (normal goat serum) at 37°C for 20 min; Antibody incubation with (ACE2) polyclonal Antibody, Unconjugated (TMAB-02201) 1:100, 90 minutes at 37°C; followed by a conjugated Goat Anti-Rabbit IgG antibody at 37°C for 90 minutes, DAPI (blue) was used to stain the cell nuclei.

4. Sample:

Lane 1: ACE2 knockout (KO) A549 Cell Lysate
Lane 2: Human A549 Cell (Control) Lysate
Primary:
Anti-ACE2 (TMAB-02201) at 1/1000 dilution
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution
Predicted band size: 87 kD
Observed band size: 120 kD

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Application: WB,ICC/IF,FCM

Recommended WB: 1:500-2000; ICC/IF: 1:100-500; FCM: 2µg/Test

Properties

Stability & Storage: Store at 2°C-8°C for 1 month. Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.

Shipping: Shipping with blue ice.

Antigen Details

Immunogen: KLH conjugated synthetic peptide: human ACE2

Antigen Species: Human

Gene ID: 59272

Uniprot ID: Q9BYF1

Research Background

The protein encoded by this gene belongs to the angiotensin-converting enzyme family of dipeptidyl carboxydipeptidases 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. [provided by RefSeq, Jul 2008]

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