

Anti-ACE2 Antibody (6R701)

Product Details

Ig Type:	Rabbit IgG
Reactivity:	Human
Conjugation:	Unconjugated
Clone:	6R701
Purification:	Protein A

Applications

Verified Activity:	<p>1. Anti-ACE2 rabbit monoclonal antibody at 1:500 dilution.</p> <ul style="list-style-type: none">-Lane A: K562 Whole Cell lysate.-Lysates/proteins at 30 µg per lane.-Secondary-Goat Anti-Rabbit IgG(H+L)/HRP at 1/10000 dilution.-Developed using the ECL technique.-Performed under reducing conditions.-Predicted band size: 92 kDa. <p>2. ACE2 was immunoprecipitated using:</p> <ul style="list-style-type: none">-Lane A:0.5 mg K562 Whole Cell Lysate.-4 µL anti-ACE2 rabbit monoclonal antibody and 60 µg of Immunomagnetic beads Protein A/G.-Primary antibody:-Anti-ACE2 rabbit monoclonal antibody, at 1:100 dilution.-Secondary antibody:-Goat Anti-Rabbit IgG (H+L)/HRP at 1/10000 dilution.-Developed using the ECL technique.-Performed under reducing conditions.-Predicted band size: 92 kDa.-Observed band size:100 kDa
Application:	ELISA,IP,WB
Recommended	WB: 1:500-1:2000; ELISA: 1:5000-1:10000; IP: 1-5 µL/mg of lysate

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. Preservative-Free.
Shipping:	Shipping with blue ice.

Antigen Details

Immunogen: Recombinant Protein: Human ACE2 Protein

Antigen Species: Human

Research Background

Angiotensin-converting enzyme 2 (ACE2), a first homolog of ACE, regulates the renin angiotensin system (RAS) by counterbalancing ACE activity. Accumulating evidence in recent years has demonstrated a physiological and pathological role of ACE2 in the cardiovascular, renal and respiratory systems. ACE2 also has an important role in blood pressure control. This enzyme, an homolog of ACE, hydrolyzes angiotensin (Ang) I to produce Ang-(1-9), which is subsequently converted into Ang-(1-7) by a neutral endopeptidase and ACE. ACE2 releases Ang-(1-7) more efficiently than its catalysis of Ang-(1-9) by cleavage of Pro(7)-Phe(8) bound in Ang II. Thus, the major biologically active product of ACE2 is Ang-(1-7), which is considered to be a beneficial peptide of the RAS cascade in the cardiovascular system. A physiological role for ACE2 has been implicated in hypertension, cardiac function, heart function and diabetes, and as a receptor of the severe acute respiratory syndrome coronavirus. In the acute respiratory distress syndrome (ARDS), ACE, AngII, and AT1R promote the disease pathogenesis, whereas ACE2 and the AT2R protect from ARDS. Importantly, ACE2 has been identified as a key SARS-coronavirus receptor and plays a protective role in severe acute respiratory syndrome (SARS) pathogenesis. Furthermore, the recent explosion of research into the ACE2 homolog, collectrin, has revealed a new physiological function of ACE2 as an amino acid transporter, which explains the pathogenic role of gene mutations in Hartnup disorder. This review summarizes and discusses the recently unveiled roles for ACE2 in disease pathogenesis.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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