bs-23444R **[Primary Antibody]**

ACE2 Rabbit pAb

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DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

GeneID: 59272 **SWISS:** Q9BYF1

Target: ACE2

Immunogen: KLH conjugated synthetic peptide derived from human ACE2: 351-450/805. < Extracellular >

Purification: affinity purified by Protein A

Concentration: 1mg/ml

Storage: 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

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]

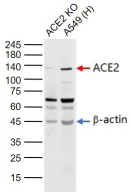
Applications: **WB** (1:500-2000)
Flow-Cyt (2ug/Test)
ICC/IF (1:100-500)

Reactivity: Human, Mouse (predicted: Rat, Rabbit, Pig, Cow, Chicken, Dog, Horse, Bat)

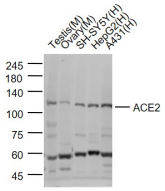
Predicted MW.: 87 kDa

Subcellular Location: Cytoplasm ,Cell projection ,Membrane ,Secreted ,Cell membrane

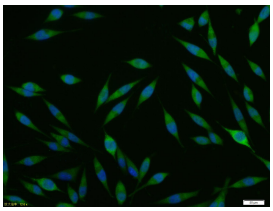
VALIDATION IMAGES



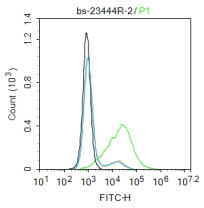
Sample: Lane 1: ACE2 knockout (KO) A549 Cell Lysate Lane 2: Human A549 Cell (Control) Lysate Primary: Anti-ACE2 (bs-23444R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 87 kD Observed band size: 120 kD



Sample: Lane 1: Testis(Mouse) Lysate at 40 ug Lane 2: Ovary (Mouse) Lysate at 40 ug Lane 3: SH-SY5Y (Human) Cell Lysate at 30 ug Lane 4: HepG2 (Human) Cell Lysate at 30 ug Lane 5: A431 (Human) Cell Lysate at 30 ug Primary: Anti-ACE2 (bs-23444R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 120 kD Observed band size: 120 kD



A431 cell; 4% Paraformaldehyde-fixed; Triton X-100 at room temperature for 20 min; Blocking buffer (normal goat serum, C-0005) at 37°C for 20 min; Antibody incubation with (ACE2) polyclonal Antibody, Unconjugated (bs-23444R) 1:100, 90 minutes at 37°C; followed by a conjugated Goat Anti-Rabbit IgG antibody at 37°C for 90 minutes, DAPI (blue, C02-04002) was used to stain the cell nuclei.



Blank control: HepG2. Primary Antibody (green line): Rabbit Anti-ACE2 antibody (bs-23444R) Dilution: 2µg /10^6 cells; Isotype Control Antibody (orange line): Rabbit IgG . Secondary Antibody : Goat anti-rabbit IgG-AF488 Dilution:

1µg /test. Protocol 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.

SELECTED CITATIONS

- **[IF=3.829]** Zhang Xiangjun. et al. DAD3 targets ACE2 to inhibit the MAPK and NF-κB signalling pathways and protect against LPS-induced inflammation in bovine mammary epithelial cells. VET RES. 2022 Dec;53(1):1-13 IF,WB ;Bovine. 36482404