

bsm-51221M**[Primary Antibody]****ACE2 Mouse mAb****BioSS**
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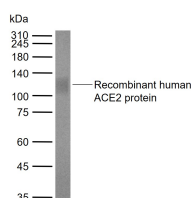
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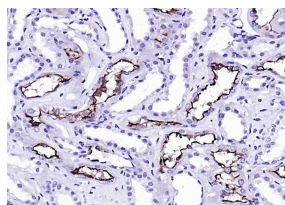
400-901-9800

— DATASHEET —**Host:** Mouse**Isotype:** IgG1, k**Clonality:** Monoclonal**CloneNo.:** 1C4**GeneID:** 59272**SWISS:** Q9BYF1**Target:** ACE2**Immunogen:** KLH conjugated synthetic peptide derived from human ACE2: 631-805/805.**Purification:** Affinity Purification**Concentration:** 1mg/ml**Storage:** 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.

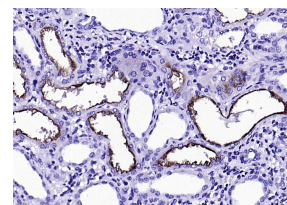
Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

Background: The protein encoded by this gene belongs to the angiotensin-converting enzyme family of dipeptidyl 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. [provided by RefSeq, Jul 2008]**Applications:** WB (1:500-1000)**IHC-P** (1:400-800)**IHC-F** (1:400-800)**IF** (1:100-500)**ICC/IF** (1:100)**ELISA** (1:5000-10000)**Reactivity:** Human**Predicted MW.:** 87 kDa**Subcellular Location:** Cytoplasm ,Cell projection ,Membrane ,Secreted ,Cell membrane**— VALIDATION IMAGES —**

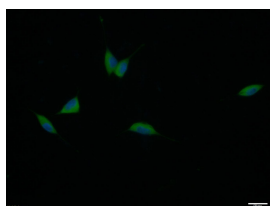
Sample: Lane 1: Recombinant human ACE2 protein, His (HEK293) Primary: Anti-ACE2 (bsm-51221M) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Mouse IgG at 1/20000 dilution Predicted band size: 87 kDa Observed band size: 110 kDa



Paraformaldehyde-fixed, paraffin embedded (Human kidney); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (ACE2) Monoclonal Antibody, Unconjugated (bsm-51221M) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Mouse)(sp-0024) instructions and DAB staining.



Paraformaldehyde-fixed, paraffin embedded (Human kidney cancer); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (ACE2) Monoclonal Antibody, Unconjugated (bsm-51221M) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Mouse)(sp-0024) instructions and DAB staining.



SH-SY5Y 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

Important Note: This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

min; Antibody incubation with (ACE2)
monoclonal Antibody, Unconjugated
(bsm-51221M) 1:100, 90 minutes at 37°C;
followed by a conjugated Goat Anti-Mouse IgG
antibody at 37°C for 90 minutes, DAPI (blue,
C02-04002) was used to stain the cell nuclei.

— SELECTED CITATIONS —

- **[IF=7.5]** Giovanni Sarnelli. et al. Intranasal administration of Escherichia coli Nissle expressing the spike protein of SARS-CoV-2 induces long-term immunization and prevents spike protein-mediated lung injury in mice. BIOMED PHARMACOTHER. 2024 May;174:116441 IF ;Mouse. 38518597