

A Reliable Research Partner in Life Science and Medicine

# **Recombinant ACE2 Monoclonal Antibody**

catalog number: AN301988L

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

#### **Description**

Reactivity Human; Mouse

**Immunogen** Peptide. This information is proprietary to PTMab.

HostRabbitIsotypeIgG, κCloneA708

Purification Protein Apurified

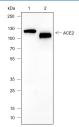
Buffer PBS, 50% glycerol, 0.05% Proclin 300, 0.05% protein protectant.

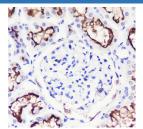
## Applications Recommended Dilution

**WB** 1:1000

IHC 1:500-1:1000

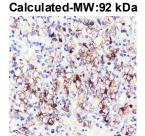
#### Data

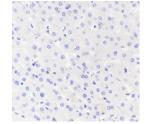




Western Blot with ACE2 Monoclonal Antibody at dilution of Immunohistochemistry of paraffin-embedded Human kidney 1:1000. Lane 1: TT, Lane 2: Mouse placenta using ACE2 Monoclonal Antibody at dilution of 1:1000.

Observed-MW:100, 120 kDa





Immunohistochemistry of paraffin-embedded Human renal clear cell carcinoma using ACE2 Monoclonal Antibody at dilution of 1:1000.

Immunohistochemistry of paraffin-embedded Human liver (negative tissue) using ACE2 Monoclonal Antibody at dilution of 1:1000.

### **Preparation & Storage**

Storage Storage Store at -20°C Valid for 12 months. Avoid freeze / thaw cycles.

Shipping Ice bag

## **Background**

#### For Research Use Only

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ACE2 is a carboxypeptidase that catalyses the conversion of angiotensin I to angiotensin 1-9, or of angiotensin II to the vasodilator angiotensin 1-7. ACE2 is a critical component in the renin-angiotensin system (RAS). ACE2 is predominantly expressed in vascular endothelial cells of the heart and kidney and Leydig and Sertoli cells of the testi s. The unique expression pattern of ACE2 determines its essential role in the regulation of cardiovascular and kidney functions, as well as fertility. ACE2 protein is localized mainly in the extracellular space with its carboxy-terminal end attached to the membrane via its transmembrane domain. Active ACE2 enzyme is secreted by cleavage at the amino terminus. Research studies have shown that ACE2 expression is elevated in human failing heart. ACE2 has also been identified as the receptor for SARS and SARS-CoV-2 coronaviruses.

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