

ACE2 Polyclonal Antibody(Capture/Detector)

catalog number: AN000900P

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

Description

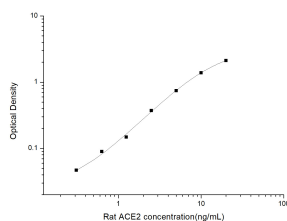
Reactivity	Rat
Immunogen	Recombinant Rat ACE2 protein expressed by Mammalian
Host	Rabbit
Isotype	Rabbit IgG
Purification	Antigen Affinity Purification
Conjugation	Unconjugated
Buffer	Phosphate buffered solution, pH 7.2, containing 0.05% proclin 300.

Applications

Recommended Dilution

ELISA Capture	2-8 µg/mL
ELISA Detector	0.1-0.4 µg/mL

Data



Sandwich ELISA-Recombinant Rat ACE2 protein standard curve. Background subtracted standard curve using ACE2 antibody(AN000900P)(Capture), ACE2 antibody(AN000900P)(Detector) in sandwich ELISA. The reference range value for Recombinant Rat ACE2 protein is 0.31-20 ng/mL.

Preparation & Storage

Storage	Store at 4°C valid for 12 months or -20°C valid for long term storage, avoid freeze / thaw cycles.
Shipping	The product is shipped with ice pack, upon receipt, store it immediately at the temperature recommended.

Background

ACE-2, also called ACEH (ACE homolog), is an integral membrane protein and a zinc metalloprotease of the ACE family that also includes somatic and germinal ACE. Human ACE-2 has about 40% amino acid identity to the N- and C-terminal domains of human somatic ACE. The predicted human ACE-2 protein sequence consists of 805 amino acids, including a N-terminal signal peptide, a single catalytic domain, a C-terminal membrane anchor, and a short cytoplasmic tail. ACE-2 cleaves angiotensins I and II as a carboxypeptidase. ACE-2 Mma is found at high levels in testis, kidney, and heart and at moderate levels in colon, small intestine, and ovary. Classical ACE inhibitors such as captopril and lisinopril do not inhibit ACE-2 activity. Novel peptide inhibitors of ACE-2 do not inhibit ACE activity. Genetic data from Drosophila, mice and rats show that ACE-2 is an essential regulator of heart function in vivo.

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