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11-2005: Anti-ACE2 Polyclonal antibody

Clonality :	Polyclonal
Application :	ELISA,WB
Gene :	ACE2
Gene ID :	59272
Uniprot ID :	Q9BYF1
Format :	Purified
Alternative Name :	Angiotensin-converting enzyme homolog, Angiotensin-converting enzyme-related carboxypeptidase, Metalloprotease MPROT15
Isotype :	Rabbit IgG
Immunogen Information :	A partial length recombinant ACE2 protein (amino acids 34-223) was used as the immunogen for this antibody.

Description

Angiotensin-converting enzyme2 (ACE2) is an ectoenzyme (carboxypeptidase) with an extracellular catalytic domain that predominantly localizes at the plasma membrane and is thereby able to hydrolyze circulating peptides. ACE2 has approximately 42% sequence identity with ACE, and its cytoplasmic and transmembrane domains show 48% homology to the protein collectrin that plays a critical role in the amino acid absorption of the kidney. ACE2 converts angiotensin I to angiotensin 1-9, a peptide of unknown function, and angiotensin II to angiotensin 1-7, a vasodilator. ACE2 is involved in the regulation of systemic blood pressure and has direct effects on cardiac functions. It is expressed predominantly in endothelial cells of the lung, gut, heart and kidney. ACE2 together with the protease TMPRSS2 acts as a functional receptor for SARS coronavirus as well as for the new highly pathogenic coronavirus, 2019-nCoV/SARS-CoV-2, which is cause for pneumonia COVID-19.

Product Info

Amount :	25 µg / 100 µg
Purification :	Protein A Chromatography
Content :	25 µg in 50 µl/100 µg in 200 µl PBS containing 0.05% BSA and 0.05% sodium azide. Sodium azide is highly toxic.
Storage condition :	Store the antibody at 4°C, stable for 6 months. For long-term storage, store at -20°C. Avoid repeated freeze and thaw cycles.

Application Note

Recommended dilutions: WB:1-2 µg/ml. However, this need to be optimized based on the research applications.

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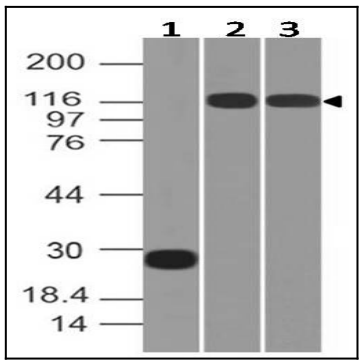


Figure-1:Western Blot analysis of ACE2 antibody: Anti- ACE2 antibody (11-2005) was used at 1 µg/ml on (1) Recombinant Protein, (2) h Testis and (3) h Kidney lysates.

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