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21-1016: Recombinant Human ACE2 His and FLAG Tag

Application : Functional Assay,ELISA,WB

Description

Source: 293 HEK cells. Angiotensin-converting enzyme 2 (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 the cause of COVID-19.

Product Info

Amount :	500 µg / 100 µg
Purification :	>95% by SDS-PAGE.
Content :	0.5 mg/ml in sterile PBS with 20% Glycerol, pH 7.4
Storage condition :	Recombinant Human ACE2 His Tag protein is shipped on ice packs. Upon arrival, Store at -20°C. Do not freeze-thaw multiple times.
Amino Acid :	The extracellular domain of recombinant human ACE2 (aa 20-740) is fused with C-terminus His tag

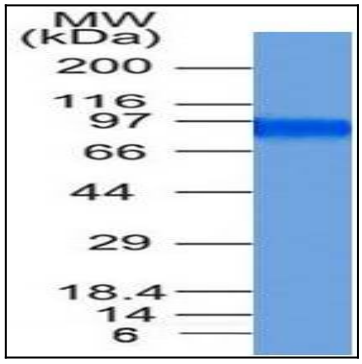

Figure 1 : SDS-PAGE analysis of purified Recombinant Human ACE2 His Tag Protein. 2 µg protein was run on a 4-20% SDS-PAGE gel followed by Coomassie blue staining.

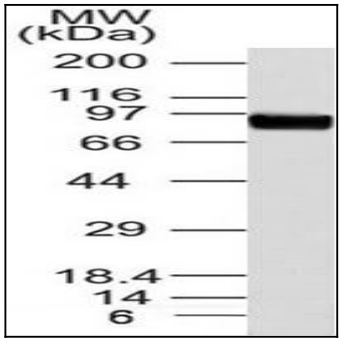

Figure 2 : Western Blot analysis of ACE2 protein: Anti- ACE2 antibody (10-8024) was used on Recombinant ACE2 Protein.

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