

ACE2 active protein

Human ACE2 Protein (DYKDDDDK Tag)

CATALOG # AAA78521	HOST HEK293 Cells	APPLICATIONS Functional Assay
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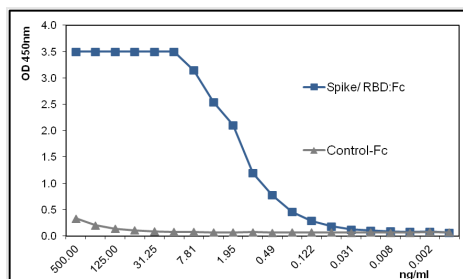
PRODUCT SYNONYMS

ACE2; Human ACE2 Protein (DYKDDDDK Tag); ACE2 active protein

PRODUCT SPECIFICATIONS

Host	HEK293 Cells
Purity/Purification	≥95% (SDS-PAGE)
Form/Format	1mg/ml after reconstitution. Reconstitute with 50ul endotoxin-free water.
Applicable Applications for ACE2 active protein	FA (Functional Assay)
Tag	DYKDDDDK TAG
Preparation and Storage	After opening, prepare aliquots and store at -20 degree C. Avoid freeze/thaw cycles. For maximum product recovery after thawing, centrifuge the vial before opening the cap. Stable for at least 6 months after receipt when stored at -20 degree C. Working aliquots are stable for up to 3 months when stored at -20 degree C.

IMAGES



Activity

Figure 1 : ACE2 (human)(rec.) (AAA78521) binds with high affinity to the Spike (RBD) protein of the virus SARS-CoV-2. Method: ACE2 (human)(rec.) (AAA78521) is coated on an ELISA plate at 1 ug/ml overnight at 4°C. Spike (SARS-CoV-2):Fc (human)(RBD)(rec.) is added (starting at a concentration of 500 ng/ml with a twofold serial dilution) during one hour at RT and the interaction is then detected using an anti-human IgG (HRP).

ADDITIONAL INFORMATION

Related Product Information for ACE2 active protein

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.

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/hek293-cells-active-protein/ace2/78521>