

Recombinant Human ACE2 protein (Fc Chimera) ab273687

[6 References](#) [4 Images](#)

Description

Product name Recombinant Human ACE2 protein (Fc Chimera)

Purity > 95 % Affinity purified.

Endotoxin level < 1.000 Eu/mg

Expression system HEK 293 cells

Accession [Q9BYF1](#)

Protein length Protein fragment

Animal free No

Nature Recombinant

Species Human

Sequence

QSTIEEQAKT FLDKFNHEAE DLFYQSSLAS WNYNTNITEE
 NVQNMNAGD KWSAFLKEQS TLAQMYPLQE
 IQNLTVKLQL QALQQNGSSV LSEDKSKRLN TILNTMSTIY
 STGKVCNPDN PQECLLLEPG LNEIMANSLD
 YNERLWAWES WRSEVGKQLR PLYEEYVVLK
 NEMARANHYE DYGDYWRGDY EVNGVDGYDY
 SRGQLIEDVE HTFEEIKPLY EHLHAYVRAK LMNAYPSYS
 PIGCLPAHLL GDMWGRFWTN LYSLTVPFQ
 KPNIDVTDAM VDQAWDAQRI FKEAEKFFVS
 VGLPNMTQGF WENSMLTPG NVQKAVCHPT
 AWDLGKGDFR ILMCTKVTMD DFLTAHHEMG
 HIQYDMAYAA QPFLLRNGAN EGFHEAVGEI
 MSLSAATPKH LKSIGLLSPD FQEDNETEIN FLLKQALTV
 GTLPFTYMLE KWRWMVFKGE IPKDQWMKKW
 WEMKREMGV VEPVPHDETY CDPASLFHVS
 NDYSFIRYYT RTLYQFQFQE ALCQAAKHEG PLHKCDISNS
 TEAGQKLFNM LRLGKSEPWT LALENVVGA
 NMNVRPLLNY FEPLFTWLKD QNKNSFVGWS
 TDWSPYADGG GSGGGGSDK THTCP
 EAAGGPSVFL FPPKPKDTLM ISRTPEVTCV
 VVDVSHEDPE VKFNWYVDGV EVHNAKTKPR
 EEQYNSTYRV VSVLTVLHQD WLNGKEYKCK

VSNKALPAPI EKTISKAKGQ PREPQVYTL P
PSRDELTKNQ VSLTCLVKGF YPSDIAVEWE
SNGQPENNYK TTPPVLDSDG SFFLYSKLTV
DKSRWQQGNV FSCSVMHEAL HNHYTQKSLS LSPGK

Predicted molecular weight	190 kDa including tags
Amino acids	18 to 615
Tags	Fc tag C-Terminus
Additional sequence information	Fc domain: Human IgG1 containing silencing LALA mutations.

Specifications

Our **Abpromise guarantee** covers the use of **ab273687** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Applications	SDS-PAGE HPLC ELISA
Form	Liquid

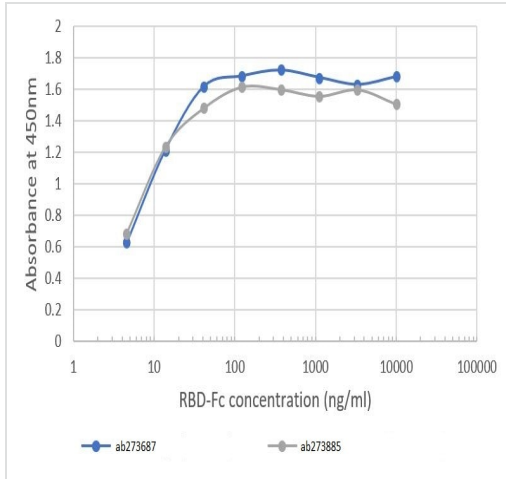
Preparation and Storage

Stability and Storage	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -80°C. Constituent: PBS
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General Info

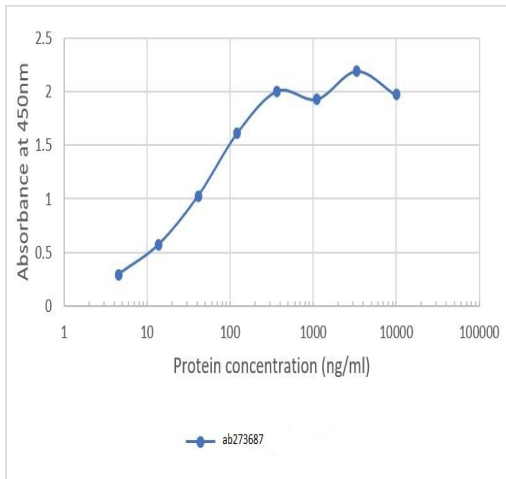
Function	Carboxypeptidase which converts angiotensin I to angiotensin 1-9, a peptide of unknown function, and angiotensin II to angiotensin 1-7, a vasodilator. Also able to hydrolyze apelin-13 and dynorphin-13 with high efficiency. May be an important regulator of heart function. In case of human coronaviruses SARS and HCoV-NL63 infections, serve as functional receptor for the spike glycoprotein of both coronaviruses.
Tissue specificity	Expressed in endothelial cells from small and large arteries, and in arterial smooth muscle cells. Expressed in lung alveolar epithelial cells, enterocytes of the small intestine, Leydig cells and Sertoli cells (at protein level). Expressed in heart, kidney, testis, and gastrointestinal system.
Sequence similarities	Belongs to the peptidase M2 family.
Post-translational modifications	N-glycosylation on Asn-90 may limit SARS infectivity.
Cellular localization	Secreted and Cell membrane.

Images



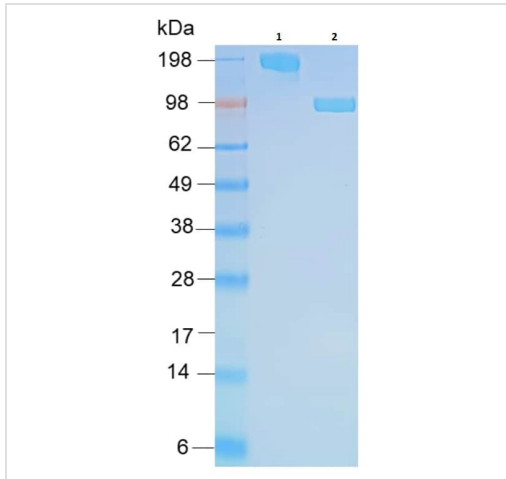
ELISA - Recombinant Human ACE2 protein (Fc Chimera) (ab273687)

RBD Fc binding to immobilized ACE2 Fc fusion proteins. 96-well plates were coated with ab273687 and Recombinant Human ACE2 (mutated H374 N + H378 N) protein (Fc Chimera) (**ab273885**) at 5 µg/ml. The SARS-CoV-2 RBD Fc fusion protein conjugated to HRP was titrated on a 3-fold serial dilution starting at 10 µg/ml.



ELISA - Recombinant Human ACE2 protein (Fc Chimera) (ab273687)

ab273687 binding to immobilized SARS-CoV-2 RBD Fc fusion protein. 96-well plate was coated with the SARS-CoV-2 RBD Fc fusion protein at 5 µg/ml. ab273687 was titrated on a 3-fold serial dilution starting at 10 µg/ml.

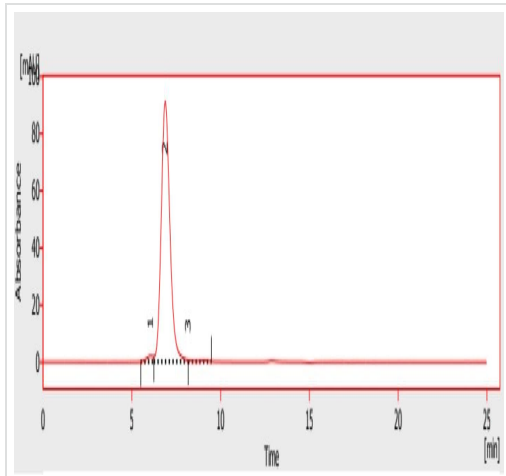


SDS-PAGE analysis of 2.5 µg ab273687.

Lane 1: Non-reduced.

Lane 2: Reduced.

SDS-PAGE - Recombinant Human ACE2 protein
(Fc Chimera) (ab273687)



HPLC analysis of ab273687.

HPLC - Recombinant Human ACE2 protein (Fc
Chimera) (ab273687)

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