

Product datasheet

Recombinant Human ACE2 (mutated H374N + H378N) protein (Fc Chimera) ab273885

[3 Images](#)

Description

Product name	Recombinant Human ACE2 (mutated H374N + H378N) protein (Fc Chimera)
Purity	> 95 % Affinity purified.
Endotoxin level	< 1.000 Eu/mg
Expression system	HEK 293 cells
Accession	<u>Q9BYF1</u>
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 LMNAYPSYIS PIGCLPAHLL GDMWGRFWTN LYSLTVPFQ KPNIDVTDAM VDQAWDAQRI FKEAEKFFVS VGLPNMTQGF WENSMLTDPG 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 THTCPPCPAP EAAGGPSVFL FPPKPKDTLM ISRTPEVTCV VVDVSHEDPE VKFNWYVDGV EVHNAKTKPR EEQYNSTYRV VSVLTVLHQD WLNGKEYKCK

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

Predicted molecular weight	190 kDa including tags
Amino acids	18 to 615
Modifications	mutated H374N + H378N
Tags	Fc tag C-Terminus
Additional sequence information	Fc domain: Human IgG1 containing silencing LALA mutations.

Specifications

Our **Abpromise guarantee** covers the use of **ab273885** in the following tested applications.

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

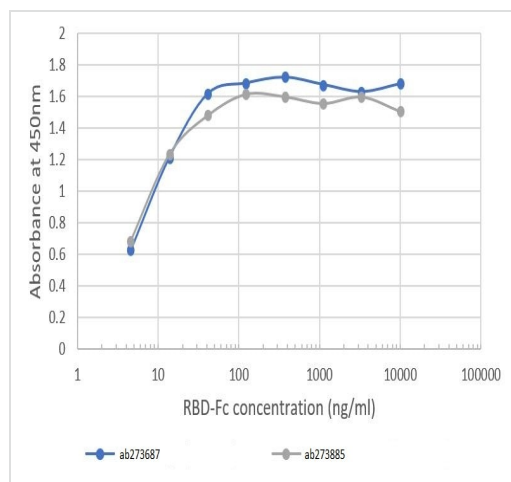
Applications	SDS-PAGE HPLC ELISA
Form	Liquid
Additional notes	Recombinant Human ACE2 (mutated H374 N + H378 N) protein (Fc Chimera) (ab273885) is an inactivated form of ACE2 generated from ACE2-Ig by altering the codons of ACE2 active-site histidines 374 and 378 to those of asparagines.

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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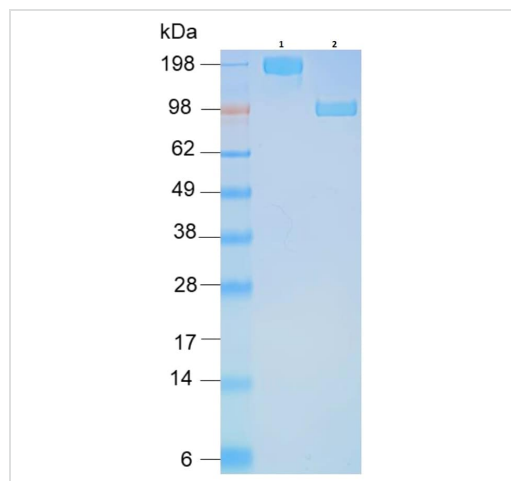
General Info

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.



ELISA - Recombinant Human ACE2 (mutated H374N + H378N) protein (Fc Chimera) (ab273885)

RBD Fc binding to immobilized ACE2 Fc fusion proteins. 96-well plates were coated with Recombinant Human ACE2 protein (Fc Chimera) (**ab273687**) and 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.



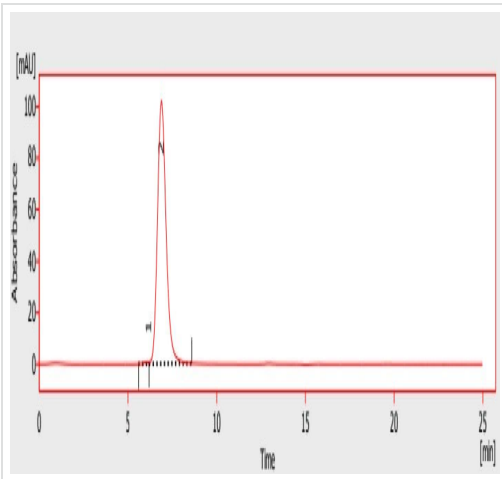
SDS-PAGE - Recombinant Human ACE2 (mutated H374N + H378N) protein (Fc Chimera) (ab273885)

SDS-PAGE analysis of 2.5 µg ab273885.

Lane 1: Non-reduced.

Lane 2: Reduced.

HPLC analysis of ab273885.



HPLC - Recombinant Human ACE2 (mutated H374N + H378N) protein (Fc Chimera) (ab273885)

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