



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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See the following pages for more information!



### Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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## Anti-ACE2 [h166D4 ] Bulk Size Ab03704-13.0-BT

**Isotype and Format:** Human IgG4, Kappa

**Clone Number:** h166D4

**Alternative Name(s) of Target:** Angiotensin-converting enzyme 2; Angiotensin-converting enzyme homolog; ACEH; Angiotensin-converting enzyme-related carboxypeptidase; ACE-related carboxypeptidase; Metalloprotease MPROT15; 166D4

**UniProt Accession Number of Target Protein:** Q9BYF1

**Published Application(s):** inhibit, ELISA

**Published Species Reactivity:** Human

**Immunogen:** The original antibody was generated by immunizing BALB/c mice with human ACE2 protein emulsified with complete Freund's adjuvant. The humanized version of the antibody was generated by grafting CDRs onto human framework regions.

**Specificity:** This antibody binds the extracellular domain of the human ACE2 protein. Angiotensin-converting enzyme 2 (ACE2) is a carboxypeptidase enzyme which catalyzes the cleavage of angiotensin I to angiotensin 1-9 and angiotensin II into the vasodilator angiotensin 1-7. This enzyme is a transmembrane protein found on the surface of arteries, heart, kidneys, testis and epithelia of the lung and small intestine. The protein acts as a receptor for spike protein of human coronaviruses SARS-CoV and SARS-CoV-2/2019-nCoV (COVID-19), as well as human coronavirus NL63/HCoV-NL63 and plays a role in virus entry into target cells. Some strategies to treat COVID-19 include blockade of ACE2 receptor and delivery of excess soluble form of ACE2.

**Application Notes:** The binding characterization of this antibody was done using ELISA. The antibody was reported to bind human ACE2 with a binding affinity of  $6.57 \times 10^{-9}$  M. This antibody can completely block the binding of SARS-CoV-2 RBD to hACE2 and thereby inhibit the infection in host. This antibody can also inhibit the infection of Vero E6 cells with SARS-CoV-2 live virus with high activity, and its IC<sub>50</sub> was 0.22 µg/mL (CN113698487).

**Antibody First Published in:** [PMID:](#)

**Note on publication:**

### Product Form

**Size:** 1 mg Purified antibody in bulk size.

**Purification:** Protein A affinity purified

**Supplied In:**

PBS only.

**Storage Recommendation:** Store at 4°C for up to 3 months. Note, this antibody is provided without added preservatives, it is therefore recommended this antibody be handled under sterile conditions. For longer storage, aliquot and store at -20°C.

**Concentration:** 1 mg/ml.

Important note – This product is for research use only. It is not intended for use in therapeutic or diagnostic procedures for humans or animals.