

Spike RBD (E484K) Protein of SARS-CoV-2

CATALOG NUMBER: SCV2-RBD-E484Kp

Introduction

Severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2) is the virus that causes COVID-19 (coronavirus disease 2019), the respiratory illness responsible for the COVID-19 pandemic. Many SARS-CoV-2 variants have been identified throughout the world since its outbreak in late 2019; some are believed or have been believed to be of particular importance due to their potential for increased transmissibility, increased virulence, and reduced effectiveness of vaccines against them.

The genome of SARS-CoV-2 has 89% nucleotide identity with bat SARS-like-CoVZXC21 and 82% with that of human SARS-CoV. The phylogenetic trees of their orf1a/b, Spike, Envelope, Membrane and Nucleoprotein also clustered closely with those of the bat, civet and human SARS coronaviruses. However, the external subdomain of Spike's receptor binding domain (RBD) of SARS-CoV-2 shares only 40% amino acid identity with other SARS-related coronaviruses

Applications

Western blot standard, antibody ELISA, antigen, *etc.*

Description

Recombinant spike RBD (E484K) protein of SARS-CoV-2 expressed and purified from HEK293 cells

Viral Protein

Spike RBD (E484K) protein (amino acid 319-541) of human SARS-CoV-2 (Genbank Accession # YP_009724390.1, p.484 E→K) with a C-terminal His-tag

Storage

Store at -20 °C; Stable for 3 months from the date of shipment when kept at 4 °C. Non-hazardous, no MSDS required.

Concentration

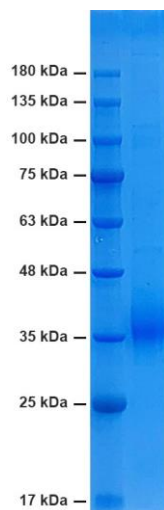
1 µg/µl in PBS

Endotoxin Level

<0.1 EU per 1 µg of the protein by LAL test

Purity

≥ 95% (by SDS PAGE)



SDS-PAGE: purified recombinant spike RBD (E484K) protein of SARS-CoV-2