

Protein Datasheet

OVERVIEW AND PROPERTIES

Product Name	PtX™ SARS-CoV-2 Spike Protein S1 Recombinant Antigen (His tag) Ultra
Catalogue Number	CBT_P0003
Expression Host	<i>Nicotiana benthamiana</i> plants
Tag	Poly-histidine (His) and SEKDEL tags at the C-terminus
Reporter Protein	None
Description	This product is a recombinant peptide fused at the genetic level to both a 6X Histidine and a SEKDEL tag. It was produced in <i>Nicotiana benthamiana</i> plants via <i>Agrobacterium tumefaciens</i> mediated infiltration.
Target	The S1 portion of the Spike protein of SARS-CoV-2 (GenBank: MN908947.3) fused to a poly-histidine and a SEKDEL tag at the C-terminus.
Verified Applications	Western blot, ELISA
Concentration	1.0 mg/ml
Form	Liquid
Colour	Clear to light yellow brown
Preparation	Ready to use
Storage	Short term (up to one week): 2 – 8 °C Long term: Aliquot and store at – 20 °C Store immediately. Aliquot and avoid multiple freeze thaw cycles.
Storage Buffer	0.1 M Phosphate Buffered Saline, pH 7.4 Preservative: None
Purification Notes	This product was purified using IMAC affinity chromatography.
Purity	≥ 85 % as determined by SDS-PAGE
General Notes	If for any reason the product does not perform as specified, please contact our scientific support team for assistance by emailing techsupport@capebiologix.com . For Research Use only, unless otherwise indicated.

PUBLICATIONS

- Title:** Comparison of T-cell immune responses to SARS-CoV-2 spike (S) and nucleocapsid (N) protein using an in-house flow-cytometric assay in laboratory employees with and without previously confirmed COVID-19 in South Africa: Nationwide cross-sectional study.
Authors: Van Rooyen, C, Brauer, Marieke; Swanepoel, P; Van Den Berg, S et al.
Year: 2022.
Journal: Journal of Clinical Pathology.
DOI: [10.1136/jclinpath-2021-207556](https://doi.org/10.1136/jclinpath-2021-207556)
- Title:** SARS-CoV-2 Antigens Expressed in Plants Detect Antibody Responses in COVID-19 Patients.
Authors: Makatsa, Mohau S; Tincho, Marius B; Wendoh, Jerome M. et al.
Year: 2021
Journal: Frontiers in Plant Science
DOI: [10.3389/fpls.2021.589940](https://doi.org/10.3389/fpls.2021.589940)
- Title:** Development of Fast and Portable Frequency Magnetic Mixing-Based Serological SARS-CoV-2-Specific Antibody Detection Assay
Authors: Pietschmann, Jan; Voepel, Nadja; Voß, Leonie et al.
Year: 2021
Journal: Frontiers in Microbiology
DOI: [10.3389/fmicb.2021.643275](https://doi.org/10.3389/fmicb.2021.643275)