

PRODUCT INFORMATION

Anti-Spike (S1) recombinant, chimeric Antibody_RP_SZ_827

Description:

InVivo offers a series of different monoclonal antibodies for the detection of the Spike protein from SARS-CoV-2. In addition to hybridoma cell antibodies, InVivo now offers **recombinant, chimeric antibodies, containing mouse variable domains (V_L+V_H) with human IgG1 (C_H) and kappa (C_L) constant domains.**

The variable sequences of RP_SZ_827 are identical to sequences of hybridoma cell line antibodies AK3422 and AK3424 (also available from InVivo), which were generated by **mouse immunization with recombinant full-length SARS-CoV-2 Spike protein (S).**

This antibody has been validated by ELISA and is specifically directed against an epitope that is located within the S1-subunit but outside the receptor-binding domain (RBD).

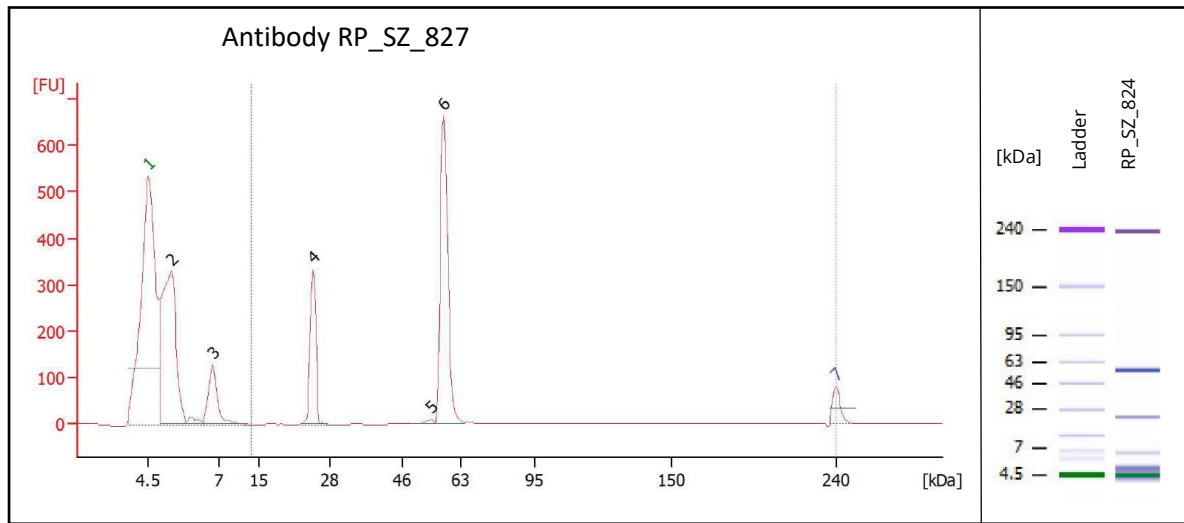
The recombinant antibodies are produced under serum-free conditions in HEK-INV cells (InVivo proprietary optimized; human embryonic kidney, HEK293 cells) and purified through one-step purification with Protein-A affinity chromatography.

Product-ID:	RP_SZ_827
Host:	Mammalian, HEK
Clonality:	Monoclonal
Isotype:	Human IgG
Subclass:	hIgG1κ
Formulation:	Liquid, PBS, pH 7.4, 0.2 μm sterile filtered
Concentration:	≥ 0.5 mg/ mL
Purity:	≥ 90% (via analytical CGE under reducing conditions)
Conjugate:	Unconjugated
Binding units traceable to WHO Standard (20/136):	30127 +/- 843 BAU/mg ¹

The product is for research use or for further manufacturing only.

¹ BAU= binding antibody units. Determined using the first WHO International Standard for anti-SARS-CoV-2 immunoglobulin (20/136) on the directly coated, recombinant, wild-type form of the SARS-CoV-2 Spike Protein in an in-house ELISA.

Purity (analytical CGE, under reducing conditions):



Peak	Size [kDa]	% of Total	Peak Identification
1	4.5	0.0	Lower Marker
2	5.3	0.0	System Peak
3	6.8	0.0	System Peak
4	24.9	Peak Value 1	Light Chain RP_SZ_827
5	54.6	1.1	unknown
6	58.1	Peak Value 2	Heavy Chain RP_SZ_827
7	240.0	0.0	Upper Marker

Summation of peak values 1 and 2 results in a purity of $\geq 90\%$

Calibration curve:

