

## Anti-Spike (RBD) recombinant, chimeric Antibody\_RP\_SZ\_824

### 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<sub>L</sub>+V<sub>H</sub>) with human IgG1 (C<sub>H</sub>) and kappa (C<sub>L</sub>) constant domains.**

The variable sequences of RP\_SZ\_824 are identical to sequences of hybridoma cell line antibodies AK3399 and AK3401 (also available from InVivo), which were generated by **mouse immunization with the receptor-binding domain (RBD)** of the SARS-CoV-2 Spike protein.

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

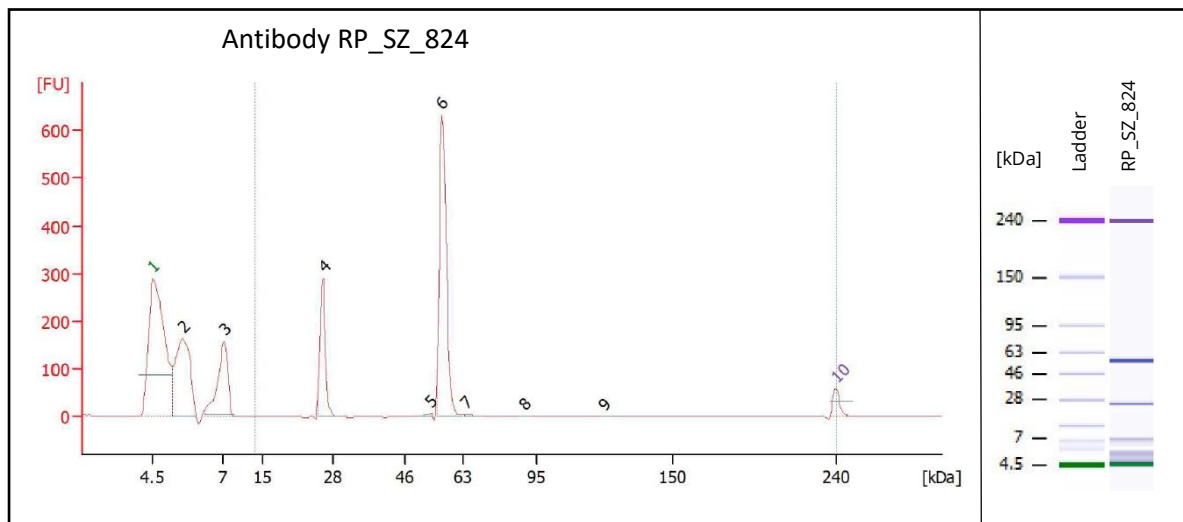
The recombinant antibodies are produced under serum-free conditions in HEK-INV cells (InVivo proprietary optimized; human embryonic kidney, HEK293 cells) and purified through one-step purification with Protein-A affinity chromatography.

<b>Product-ID:</b>	RP_SZ_824
<b>Host:</b>	Mammalian, HEK
<b>Clonality:</b>	Monoclonal
<b>Isotype:</b>	Human IgG
<b>Subclass:</b>	hIgG1κ
<b>Formulation:</b>	Liquid, PBS, pH 7.4, 0.2 μm sterile filtered
<b>Concentration:</b>	≥ 0.5 mg/ mL
<b>Purity:</b>	≥ 90% (via analytical CGE under reducing conditions)
<b>Conjugate:</b>	Unconjugated
<b>Binding units traceable to WHO Standard (20/136):</b>	12575 +/- 1150 BAU/mg <sup>1</sup> (Spike Protein) resp. 32869 +/- 2219 BAU/mg <sup>1</sup> (RBD)

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

<sup>1</sup> 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 respective SARS-CoV-2 antigen 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	5.6	0.0	System Peak
3	7.5	0.0	System Peak
4	26.1	Peak Value 1	Light Chain RP_SZ_824
5	53.4	0.7	unknown
6	56.8	Peak Value 2	Heavy Chain RP_SZ_824
7	64.3	0.5	unknown
8	89.5	0.2	unknown
9	122.6	0.2	unknown
10	240.0	0.0	Upper Marker

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

### Calibration curves:

