

## PRODUCT INFORMATION

### Anti-Spike (S1) Antibody\_AK3424

#### Description:

InVivo offers a series of different monoclonal antibodies for the detection of the Spike protein from SARS-CoV-2. All antibodies come from hybridoma cell lines that were generated by immunization with the recombinant full-length Spike protein (S) or the receptor-binding domain (RBD).

This antibody has been validated by ELISA and is specifically directed against an epitope that is located within the S1-subunit but outside the RBD. Additionally, ELISAs with directly coated antigens proved that this antibody also binds to Spike protein B.1.1.7.

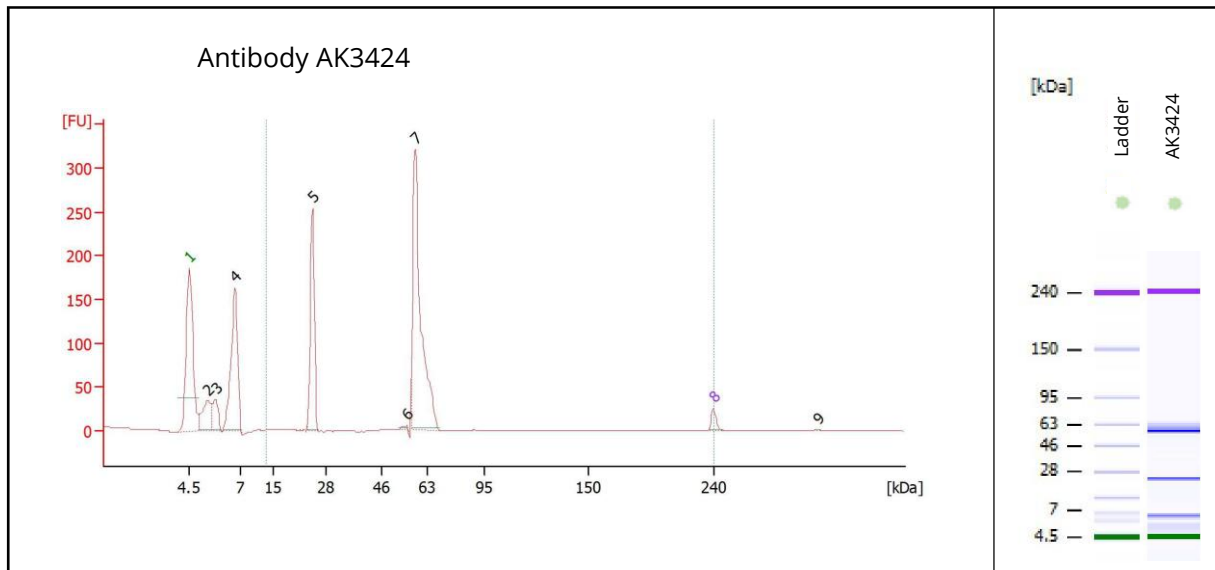
All antibodies are produced exclusively under serum-free conditions from hybridoma and purified through one-step purification with Protein-A affinity chromatography.

<b>Product-ID:</b>	AK3424
<b>Host:</b>	Mouse
<b>Clonality:</b>	Monoclonal
<b>Isotype:</b>	IgG
<b>Subclass:</b>	mIgG2bk
<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>EC<sub>50</sub> S1*:</b>	1.211 nM
<b>EC<sub>50</sub> S*:</b>	0.226 nM
<b>Specificity:</b>	S (tested for: Wuhan and B.1.1.7)

\*EC<sub>50</sub> values for 20 nM of coated antigen

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

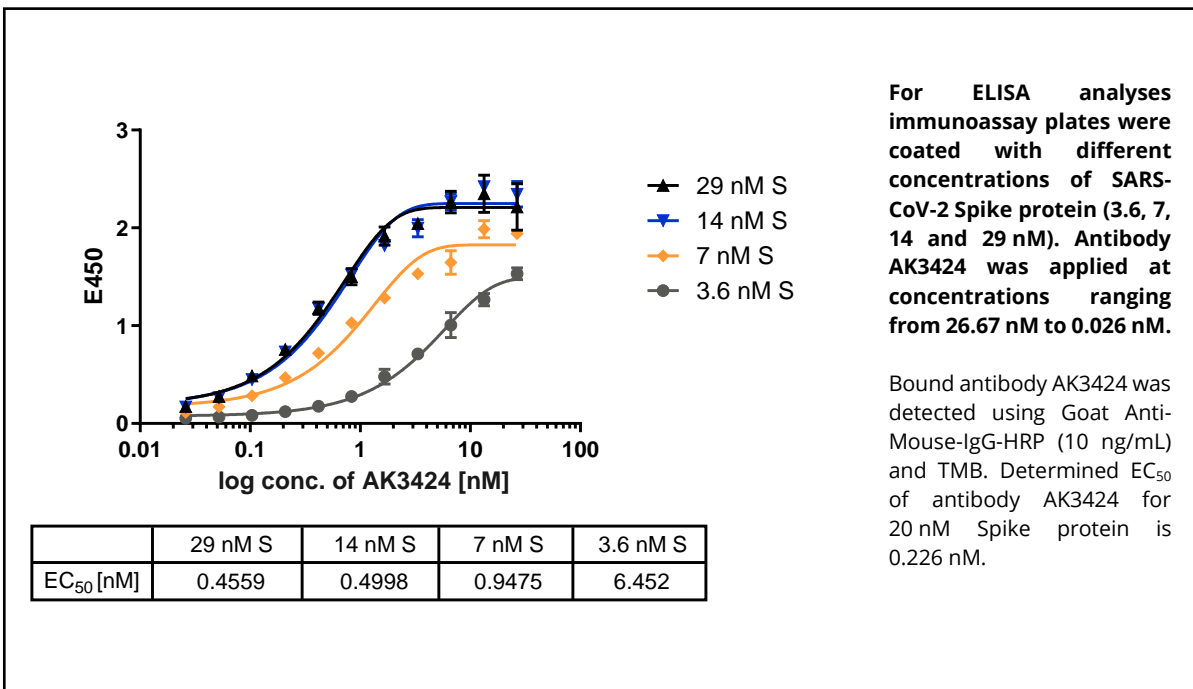
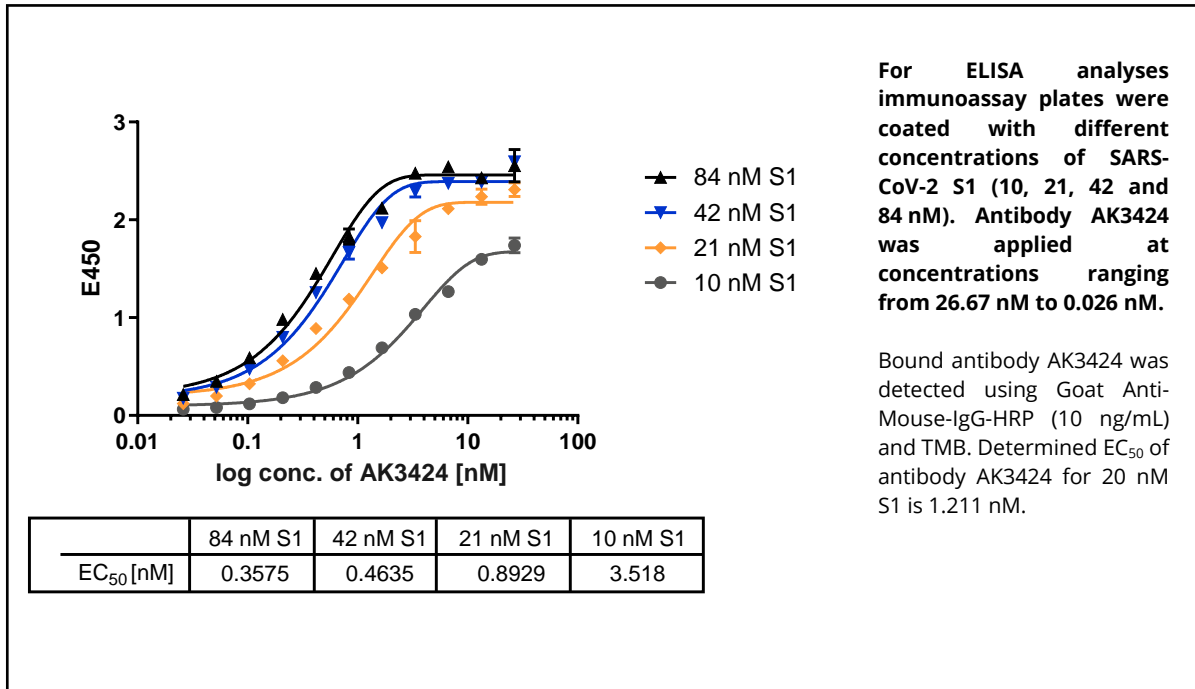
**Purity (analytical CGE, under reducing conditions):**



Peak	Size [kDa]	% of Total	Observations
1	4.5	0.0	Lower Marker
2	5.4	0.0	System Peak
3	5.8	0.0	System Peak
4	6.7	0.0	System Peak
5	24.6	Peak Value 1	Light Chain
6	55.3	0.6	
7	58.7	Peak Value 2	Heavy Chain
8	240.0	0.0	Upper Marker
9	314.6	0.0	

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

**Protein Activity (ELISA):**



**Binding activity to SARS-CoV-2 Spike protein variant B.1.1.7 (ELISA):**

