

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 the Alpha variant of the Spike protein.

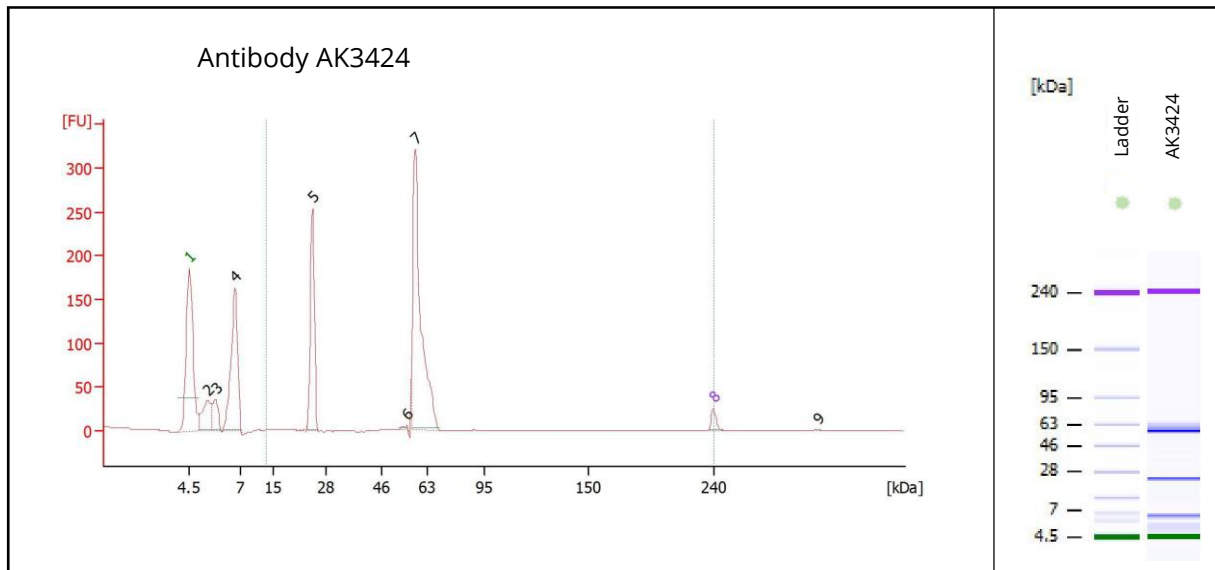
All antibodies are produced exclusively under serum-free conditions from hybridoma and purified through one-step purification with Protein-A affinity chromatography.

Product-ID:	AK3424
Host:	Mouse
Clonality:	Monoclonal
Isotype:	IgG
Subclass:	mIgG2ak
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
EC₅₀ S1*:	1.211 nM
EC₅₀ S*:	0.226 nM
Specificity:	S (tested for: Wuhan and Alpha)

*EC₅₀ values for 20 nM of coated antigen

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

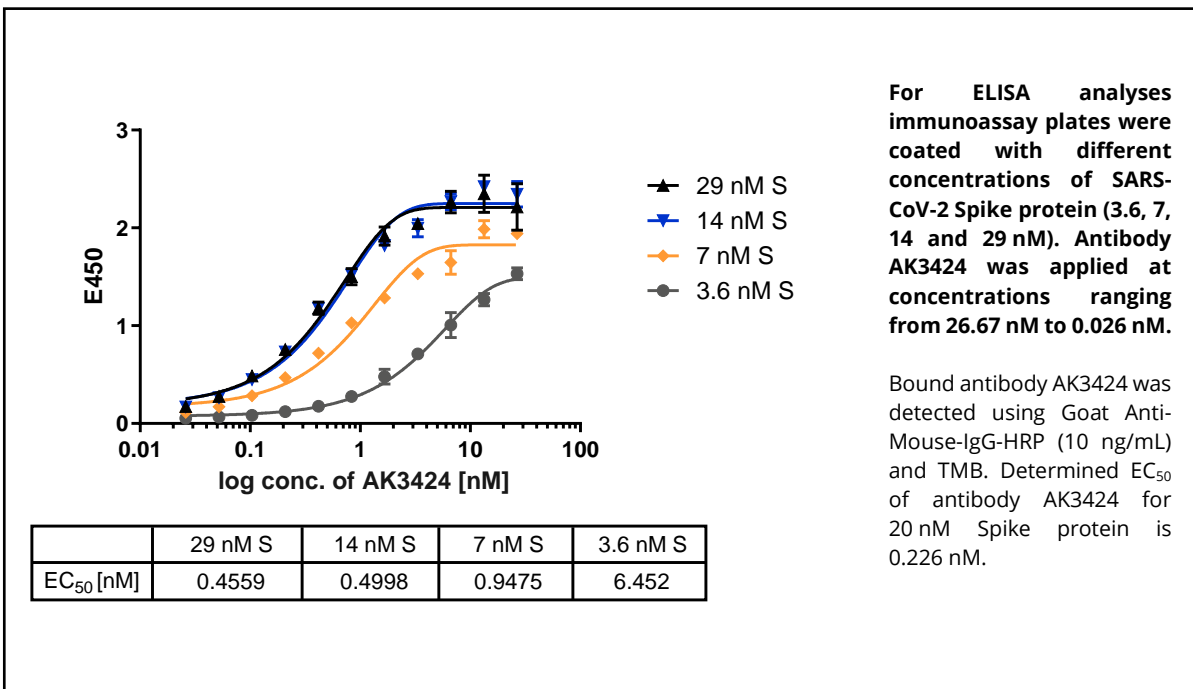
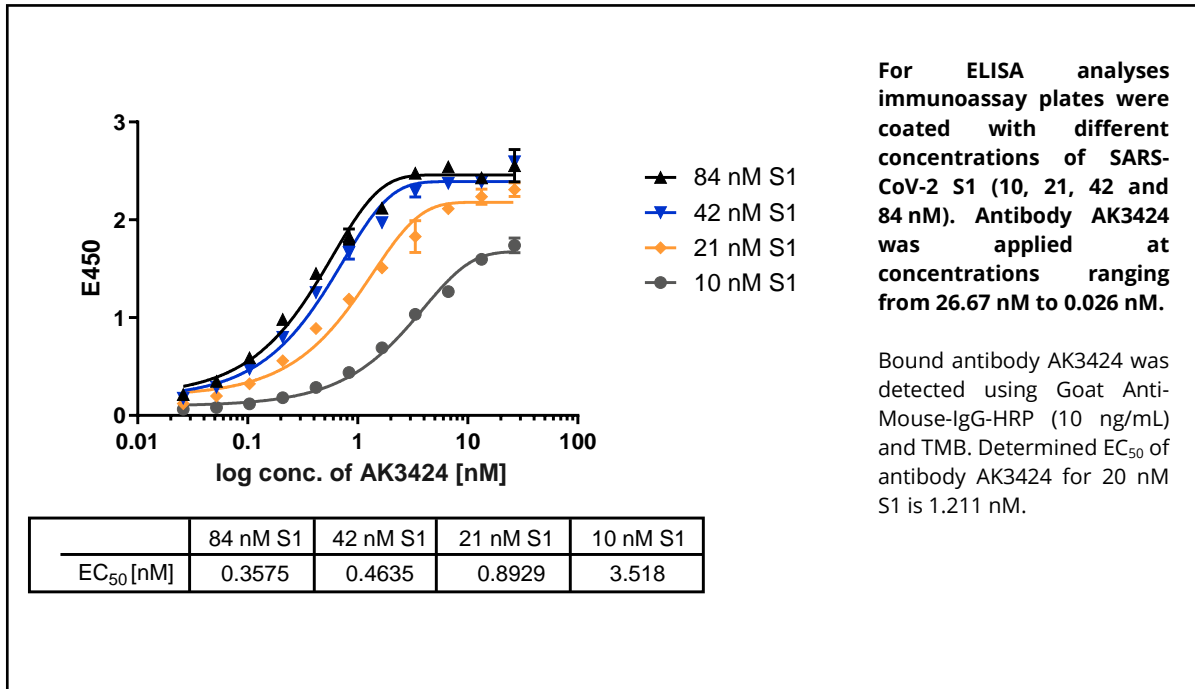
Purity (analytical CGE, under reducing conditions):



Peak	Size [kDa]	% of Total	Peak Identification
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	AK3424 Light Chain
6	55.3	0.6	unknown
7	58.7	Peak Value 2	AK3424 Heavy Chain
8	240.0	0.0	Upper Marker
9	314.6	0.0	unknown

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):

