

Anti-Spike (S1) Antibody_AK3422

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.

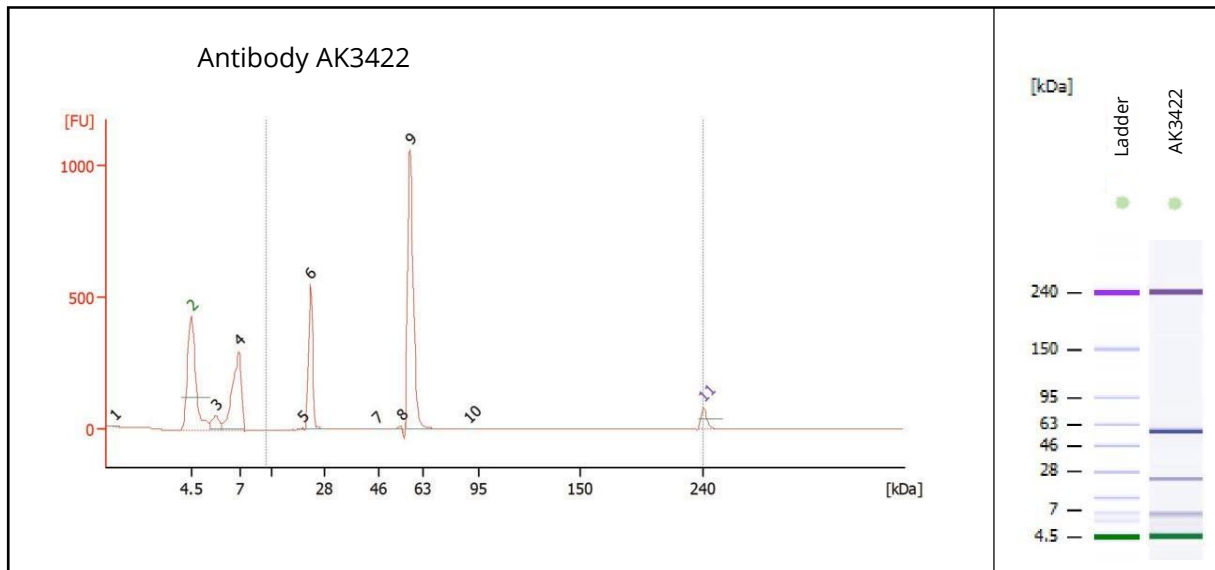
All antibodies are produced exclusively under serum-free conditions from hybridoma and purified through one-step purification with Protein-A affinity chromatography.

Product-ID:	AK3422
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*:	0.579 nM
EC₅₀ S*:	0.084 nM

*EC₅₀ values for 20 nM of coated antigen

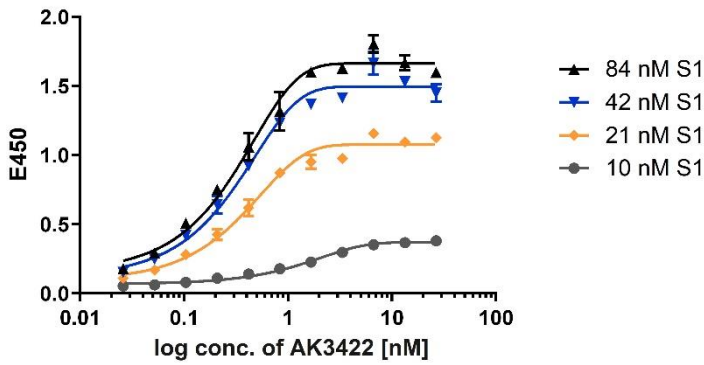
The product is for research use or for further manufacturing only.

Purity (analytical CGE, under reducing conditions):



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

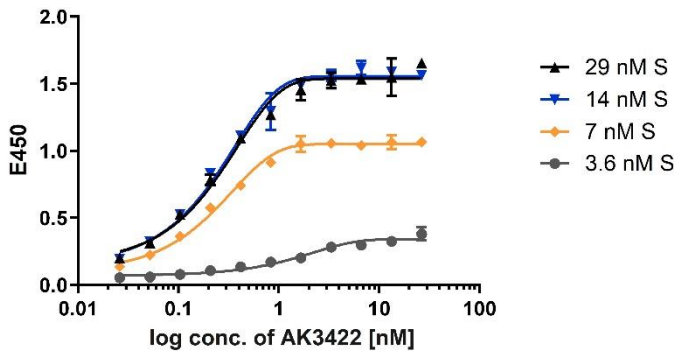
Protein Activity (ELISA):



	84 nM S1	42 nM S1	21 nM S1	10 nM S1
EC ₅₀ [nM]	0.2949	0.3139	0.3587	1.481

For ELISA analyses immunoassay plates were coated with different concentrations of SARS-CoV-2 S1 (10, 21, 42 and 84 nM). Antibody AK3422 was applied at concentrations ranging from 26.67 nM to 0.026 nM.

Bound antibody AK3422 was detected using Goat Anti-Mouse-IgG-HRP (10 ng/mL) and TMB. Determined EC₅₀ of antibody AK3422 for 20 nM S1 is 0.579 nM.



	29 nM S	14 nM S	7 nM S	3.6 nM S
EC ₅₀ [nM]	0.2273	0.2196	0.2181	2.482

For ELISA analyses immunoassay plates were coated with different concentrations of SARS-CoV-2 spike protein (3.6, 7, 14 and 29 nM). Antibody AK3422 was applied at concentrations ranging from 26.67 nM to 0.026 nM.

Bound antibody AK3422 was detected using Goat Anti-Mouse-IgG-HRP (10 ng/mL) and TMB. Determined EC₅₀ of antibody AK3422 for 20 nM Spike protein is 0.084 nM.