INVIVO

PRODUCT INFORMATION

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. Additionally, ELISAs with directly coated antigens proved that this antibody also binds to Spike protein B.1.1.7.

It is also recommended and independently tested for use in sandwich ELISA assays.

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: mlgG2ak

Formulation: Liquid, PBS, pH 7.4, 0.2 μm sterile filtered

Concentration: $\geq 0.5 \text{ mg/ mL}$

Purity: ≥ 90% (via analytical CGE under reducing conditions)

Conjugate: Unconjugated

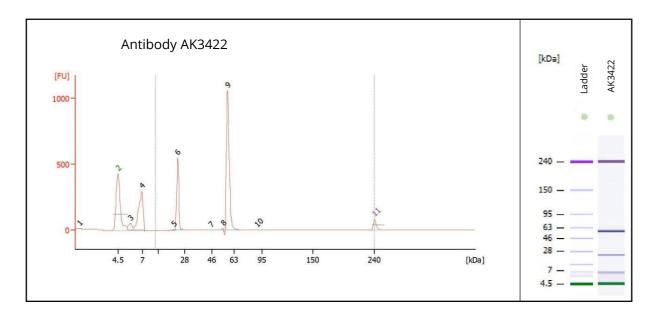
EC₅₀ S1*: 0.579 nM EC₅₀ S*: 0.084 nM

Specificity: S (tested for: Wuhan and B.1.1.7)

TVS CS-015.2

^{*}EC₅₀ values for 20 nM of coated antigen

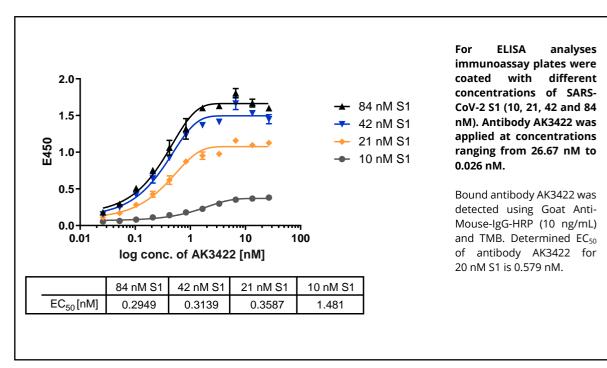
<u>Purity (analytical CGE, under reducing conditions):</u>

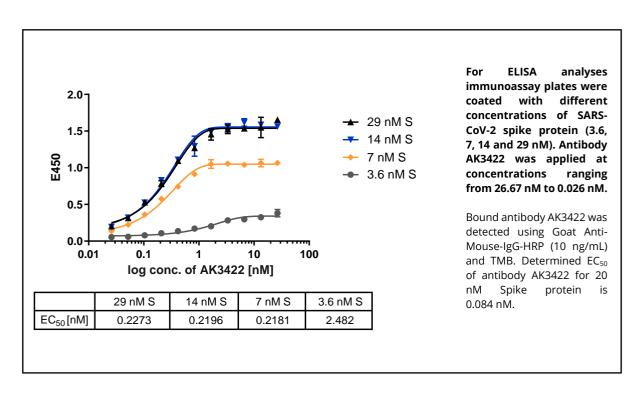


Peak	Size [kDa]	% of Total	Observations
1	0.5	0.0	
2	4.5	0.0	Lower Marker
3	5.8	0.0	System Peak
4	6.9	0.0	System Peak
5	22.5	0.2	
6	24.5	Peak Value 1	Light Chain
7	45.6	0.2	
8	54.6	0.6	
9	58.0	Peak Value 2	Heavy Chain
10	88.7	0.1	
11	240.0	0.0	Upper Marker

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):

