

Anti-Spike (RBD) Antibody_AK3427

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 on the RBD. Additionally, ELISAs with directly coated antigens proved that this antibody also binds to Spike protein B.1.1.7 and different RBD variants (B.1.1.7, B.1.1.28.1, B.1.1.7 E484K and B.1.351).

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

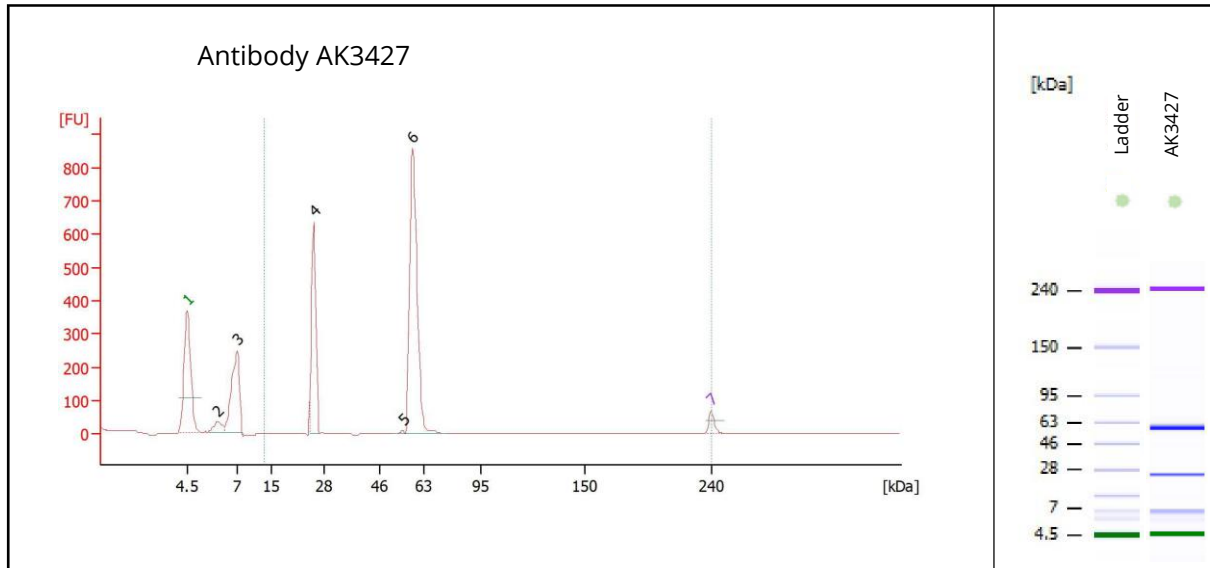
All antibodies are produced exclusively under serum-free conditions from hybridoma and purified through one-step purification with Protein-A affinity chromatography.

Product-ID:	AK3427
Host:	Mouse
Clonality:	Monoclonal
Isotype:	IgG
Subclass:	mIgG1κ
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 S*:	1.180 nM
Specificity:	S (tested for: Wuhan and B.1.1.7) RBD (tested for: Wuhan, B.1.1.7, B.1.1.28.1, B.1.1.7 E484K and B.1.351)

*EC₅₀ values for 20 nM of coated antigen

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

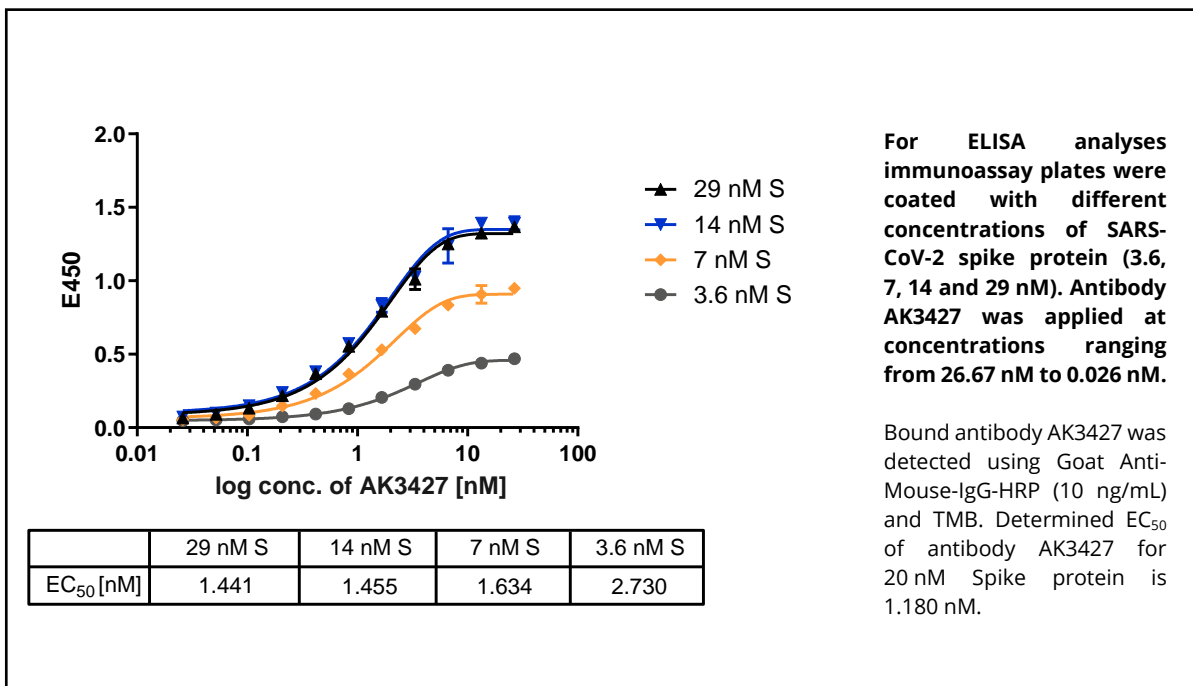
Purity (analytical CGE, under reducing conditions):



Peak	Size [kDa]	% of Total	Observations
1	4.5	0.0	Lower Marker
2	6.0	0.0	System Peak
3	7.0	0.0	System Peak
4	25.4	Peak Value 1	Light Chain
5	55.1	0.4	
6	58.5	Peak Value 2	Heavy Chain
7	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 and receptor-binding domain variants (ELISA):

