

PRODUCT INFORMATION

Anti-Spike (RBD) Antibody_AK3402

Description:

InVivo offers a series of different monoclonal antibodies for the detection of the SARS-CoV-2 Spike protein. 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 the Alpha variant of the Spike protein and different RBD variants (Alpha, Alpha + E484K, Beta and Gamma).

This antibody was shown to neutralize the SARS-CoV-2 wildtype (Wuhan), as well as the Alpha and the Beta variant in cell culture. No other variants were tested.

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

Product-ID: AK3402

Host: Mouse

Clonality: Monoclonal

Isotype: lgG

Subclass: mlgG2bκ

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

Specificity: S (tested for: Wuhan and Alpha)

RBD (tested for: Wuhan, Alpha, Alpha+E484K, Beta and Gamma)

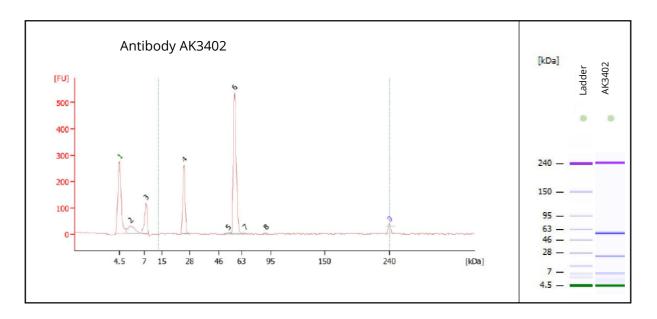
Neutralization: yes

IC₅₀ SARS-CoV-2 Wuhan¹: 0.25 +/- 0.09 μg/ mL IC₅₀ SARS-CoV-2 Alpha¹: 0.08 +/- 0.03 μg/ mL IC₅₀ SARS-CoV-2 Beta¹: 0.14 +/- 0.02 μg/ mL

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

¹ Mean of two individual in-cell neutralization assays performed with Vera6 cells by our cooperation partner Dr. Valeria Falcone from the University Hospital Freiburg (Institute of Virology)

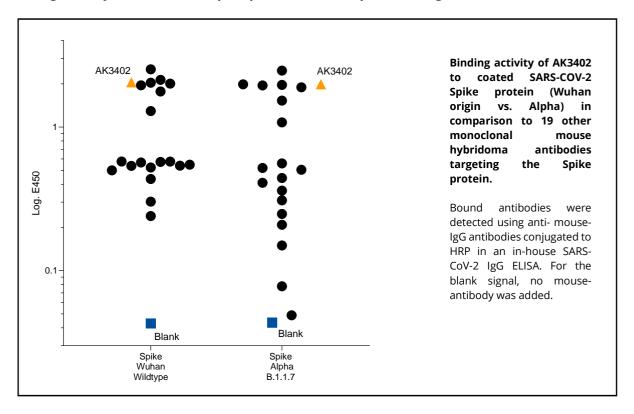
<u>Purity (analytical CGE, under reducing conditions):</u>

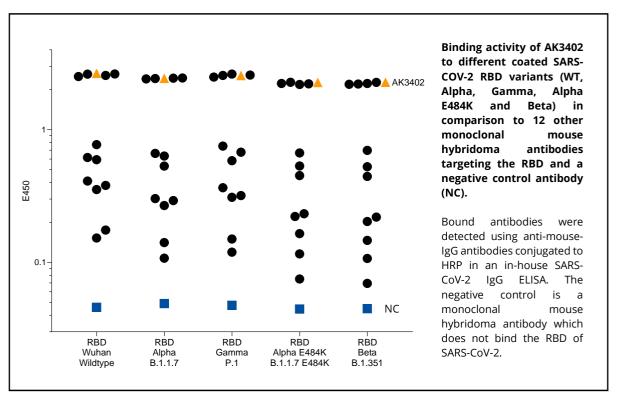


Peak	Size [kDa]	% of Total	Observations
1	4.5	0.0	Lower Marker
2	5.6	0.0	System Peak
3	7.6	0.0	System Peak
4	25.3	Peak Value 1	Light Chain
5	53.1	1.1	
6	57.8	Peak Value 2	Heavy Chain
7	66.6	0.4	
8	89.5	0.3	
9	240.0	0.0	Upper Marker

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

Binding activity to SARS-CoV-2 Spike protein and receptor-binding domain variants (ELISA):





Neutralization Assay:

