# INVIVO InVivo BioTech Services GmbH a BRUKER company

#### **PRODUCT INFORMATION**

## Anti-Spike (RBD) Antibody\_AK3401

### **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).

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

**Product-ID:** AK3401

**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

**EC**<sub>50</sub> **RBD\***: 2.117 nM

EC<sub>50</sub> S1\*: 1.117 nM

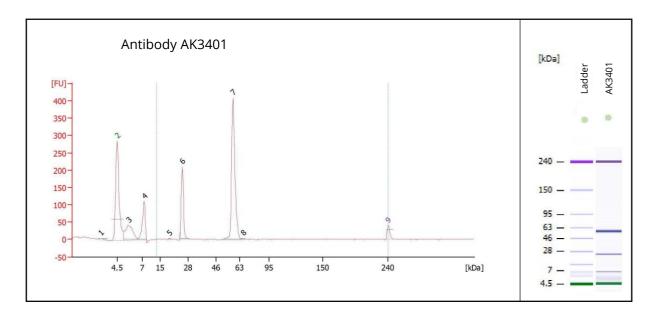
**EC**<sub>50</sub> **S\***: 0.424 nM

**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)

<sup>\*</sup>EC<sub>50</sub> values for 20 nM of coated antigen (Wuhan origin)

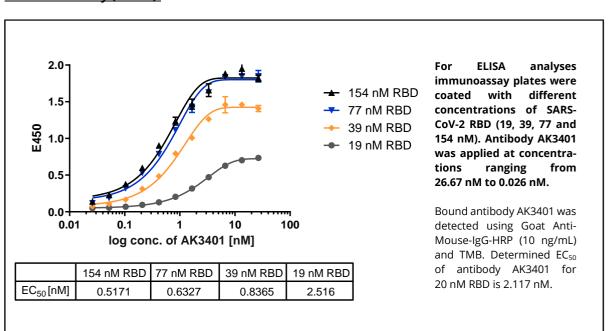
#### Purity (analytical CGE, under reducing conditions):

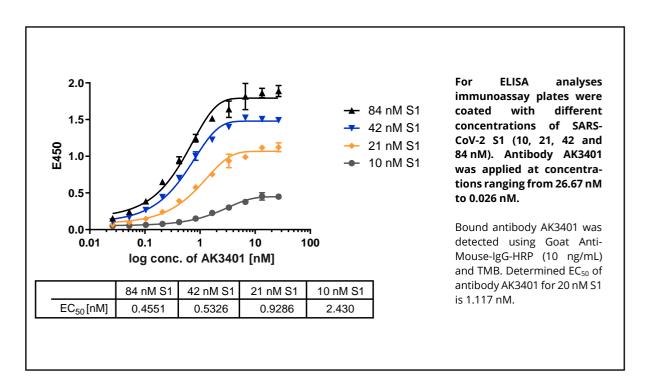


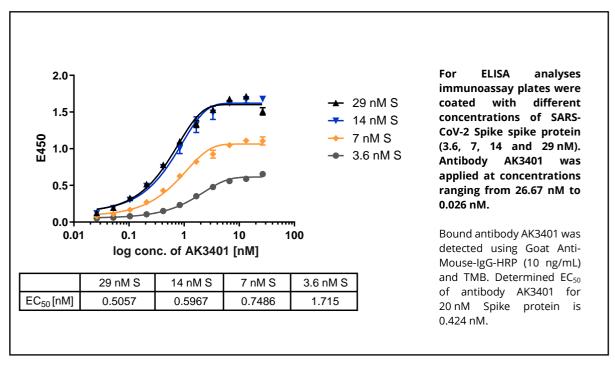
Peak	Size [kDa]	% of Total	Peak Identification
1	2.9	0.0	Unknown
2	4.5	0.0	Lower Marker
3	5.6	0.0	System Peak
4	7.9	0.0	System Peak
5	19.3	0.3	Unknown
6	25.3	Peak Value 1	Light Chain AK3401
7	58.2	Peak Value 2	Heavy Chain AK3401
8	67.2	0.5	Unknown
9	240.0	0.0	Upper Marker

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):

