# INVIVO InVivo BioTech Services GmbH a BRUKER company

#### PRODUCT INFORMATION

# Anti-Spike (RBD) Antibody\_AK3399

#### **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 the Alpha variant of the Spike protein and different RBD variants (Alpha, Alpha + E484K, Beta and Gamma).

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:** AK3399

**Host**: Mouse

**Clonality**: Monoclonal

**Isotype:** lgG

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\*: 2.353 nM EC<sub>50</sub> S1\*: 1.321 nM EC<sub>50</sub> S\*: 0.378 nM

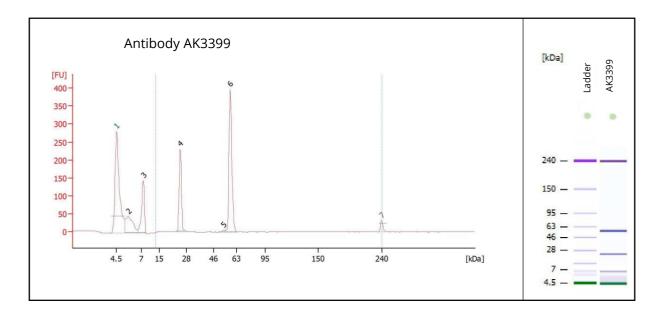
**Specificity:** S (tested for: Wuhan and Alpha)

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

VS CS-007.3

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

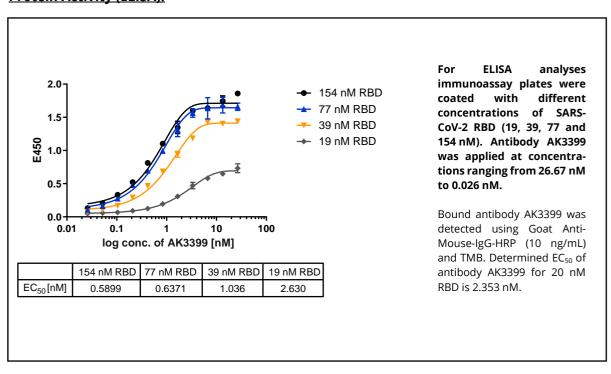
# Purity (analytical CGE, under reducing conditions):

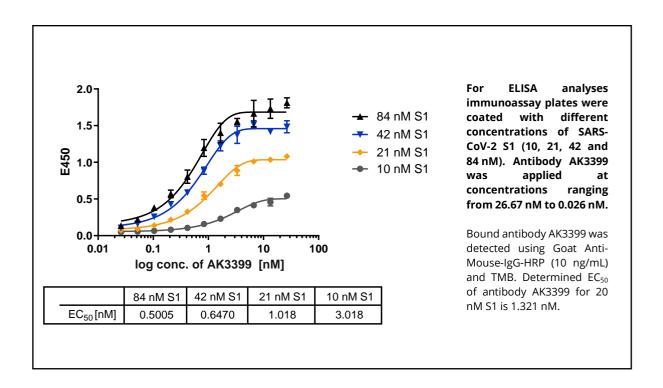


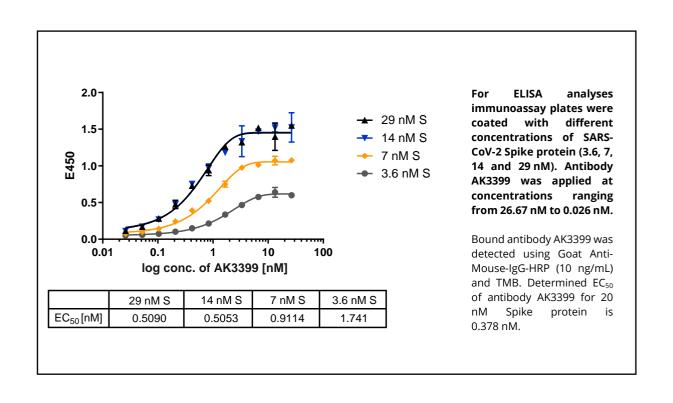
Peak	Size [kDa]	% of Total	Peak identification
1	4.5	0.0	Lower Marker
2	5.7	0.0	System Peak
3	7.8	0.0	System Peak
4	25.1	Peak Value 1	Light Chain AK3399
5	53.5	0.0	unknown
6	58.4	Peak Value 2	Heavy Chain AK3399
7	240.0	0.0	Upper Marker

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

# **Protein Activity (ELISA):**







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

