

**Monoclonal Anti-SARS Coronavirus/SARS-Related Coronavirus 2 Spike Glycoprotein Receptor Binding Domain (RBD), Chimeric Antibody (produced *in vitro*)**

**Catalog No. NR-53789**

**Sino Biological Catalog No. 40150-D001**

**Product Description:**

Antibody Class: IgG1k

Clone: D001

Chimeric monoclonal antibody prepared against the severe acute respiratory syndrome coronavirus (SARS-CoV) spike (S) glycoprotein receptor binding domain (RBD) was produced using recombinant antibody technology. The variable region was obtained from mice immunized with purified recombinant SARS-CoV spike RBD protein (Sino Biological 40150-V08B2) to produce the variable region, which was combined with constant domains of the human IgG1 molecule. NR-53789 is specific to the SARS-CoV spike RBD protein and shows cross reactivity in ELISA with the SARS-CoV spike S1 protein, the SARS-CoV-2 spike RBD protein and the SARS-CoV-2 spike S1 protein, with no cross reactivity with the spike S1 proteins from MERS-CoV, HCoV-HKU1 (isolates N1 and N5), HCoV-NL63 or HCoV-229E, or the HCoV-OC43 spike S1 + S2 ectodomain (ECD) protein.

**Lot: HA17FE1401**

**Manufacturing Date: 14FEB2023**

TEST	SPECIFICATIONS	RESULTS
<b>Concentration</b>	Report results	1 mg/mL
<b>Functional Activity</b> ELISA Flow cytometry Immunocytochemistry/ Immunofluorescence	Report results Report results Report results	Reactive <sup>1</sup> Reactive <sup>2</sup> Reactive <sup>3</sup>
<b>Sterility</b>	0.2 µm filter-sterilized	0.2 µm filter-sterilized

<sup>1</sup>Using a 1:5000-1:10000 dilution of NR-53789

<sup>2</sup>Using a 1:25-1:100 dilution of NR-53789

<sup>3</sup>Using a 1:20-1:100 dilution of NR-53789

/Sonia Bjorum Brower/

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23 MAY 2023

Technical Manager or designee, ATCC Federal Solutions

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