

Datasheet for ABIN6972668

Recombinant anti-SARS-CoV-2 Spike antibody**2** Images[Go to Product page](#)

Overview

Quantity:	100 µg
Target:	SARS-CoV-2 Spike
Reactivity:	SARS Coronavirus-2 (SARS-CoV-2)
Host:	Human
Antibody Type:	Recombinant Antibody
Clonality:	Monoclonal
Application:	ELISA, Western Blotting (WB)

Product Details

Clone:	AM004414 (414-4)
Isotype:	IgG1
Characteristics:	<p>COVID-19, which is short for coronavirus disease 2019, is the official name of the respiratory disease caused by infection with the novel coronavirus SARS-CoV-2. The virus that causes COVID-19 was named SARS-CoV-2 because it is a coronavirus genetically similar to, yet distinct from, the virus that caused the severe acute respiratory syndrome (SARS) outbreak in 2003. Studying the details of how this virus replicates and causes the disease will allow scientists and physicians to more rapidly develop fast and accurate methods of detection as well as to deploy therapeutic and vaccine strategies. This antibody was derived from COVID-19 patients who have cleared the virus. Patient serum IgG was sequenced and expressed as full-length IgG1 with human immunoglobulin heavy and light chains in mammalian 293 cells. SARS-CoV-2 Spike Antibody (AM4) was raised in a Human host. It has been validated for use in ELISA and Western blot, it has been shown to react with Virus samples.</p>

Product Details

Purification: Protein A Chromatography

Target Details

Target: SARS-CoV-2 Spike

Abstract: [SARS-CoV-2 Spike Products](#)

Target Type: Viral Protein

Molecular Weight: 141 kDa (full length S1 protein)

Application Details

Application Notes: Optimal working dilution should be determined by the investigator.

Restrictions: For Research Use only

Handling

Buffer: 140 mM Hepes, pH 7.5, 70 mM NaCl, 32 mM NaOAc, 0.035 % sodium azide, and 30 % glycerol.

Preservative: Sodium azide

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

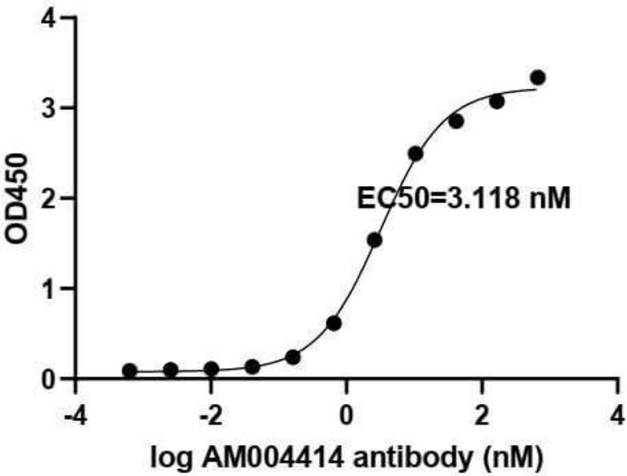
Storage: -20 °C

Storage Comment: Avoid repeated freeze/thaw cycles by aliquoting items into single-use fractions for storage at -20°C for up to 2 years. Keep all reagents on ice when not in storage.



Western Blotting

Image 1. SARS-CoV-2 Spike Antibody (AM004414) tested by Western blot. Lysates from HEK293 cells transfected (Lane 1 and 3) or untransfected (Lane 2) was probed with 0.5 μ g/mL of rAb (Lane 1 & 2) or an anti-flag Ab (Lane 3). Lane 1: transfected flag-tagged SARS-CoV-2 S1 subunit Lane 2: untransfected Lane 3: transfected flag-tagged SARS-CoV-2 S1 subunit



ELISA

Image 2. SARS-CoV-2 Spike Antibody (clone AM004414) tested by ELISA. SARS-CoV-2 Spike RBD protein was coated onto microtiter plates at 0.5 μ g/mL and then incubated with a dilution series of SARS-CoV-2 Spike Antibody (clone AM004414). Bound antibodies were detected with anti-human IgG conjugated to horseradish peroxidase (HRP) followed by incubation with HRP Substrate and then measuring the resulting absorbance at 450 nm.