

Product datasheet

Anti-SARS-CoV-2 spike glycoprotein antibody [H6] - Chimeric ab272854

Recombinant

★★★★★ 3 Abreviews 6 Images

Overview

Product name	Anti-SARS-CoV-2 spike glycoprotein antibody [H6] - Chimeric
Description	Human monoclonal [H6] to SARS-CoV-2 spike glycoprotein - Chimeric
Host species	Human
Specificity	We have in-house data that suggests this product also reacts with SARS-CoV-1 spike protein in Western blot.
Tested applications	Suitable for: ELISA, WB, Functional Studies
Species reactivity	Reacts with: SARS-CoV, SARS-CoV-2
Immunogen	Recombinant fragment corresponding to Human SARS-CoV-2 spike glycoprotein aa 16-685. Database link: P0DTC2
Positive control	WB: SARS-Cov1 spike protein transfected Expi cell lysate, SARS-Cov1 3xFlag spike protein transfected Expi cell lysate, SARS-Cov2 spike protein transfected Expi cell lysate and SARS-Cov2 3xFlag spike protein transfected Expi cell lysate.
General notes	Anti-SARS-CoV-2 spike glycoprotein antibody [H6] - Chimeric (ab272854) is a recombinant human/mouse chimeric monoclonal antibody consisting of Mouse scFv fused with human IgG1. As the Fc region is human, an anti-Human secondary antibody should be used for detection.

Applications overview

Tick: Tested and Guaranteed to work X: Will not work —: No data

	WB	IHC	ICC	Flow Cyt	ELISA	IP
SARS-CoV	✓	—	—	—	⊗	—
SARS-CoV2	✓	—	Reviews ①	—	✓	—

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C. Avoid freeze / thaw cycle.

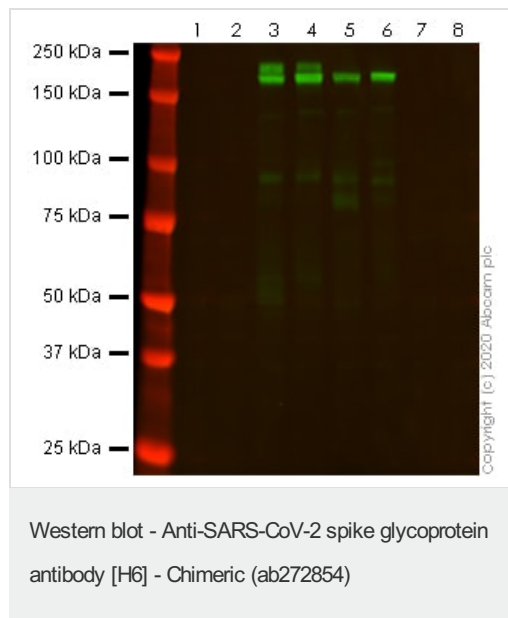
Storage buffer	pH: 7.40 Constituents: 0.03% Proclin 300, 50% Glycerol, PBS
Purity	>90% by SDS-PAGE
Purification notes	Screened the positive clones from mouse ScFv antibody libraries, then expressed in 293F cells.
Clonality	Monoclonal
Clone number	H6
Isotype	IgG1

Applications

The Abpromise guarantee Our [Abpromise guarantee](#) covers the use of ab272854 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
ELISA	★★★★★ (1)	1/10000 - 1/50000.
WB		Use a concentration of 1 µg/ml.
Functional Studies		Use at an assay dependent concentration.

Images



All lanes : Anti-SARS-CoV-2 spike glycoprotein antibody [H6] - Chimeric (ab272854) at 1 µg/ml

Lane 1 : Mock transfected Expi cell lysate

Lane 2 : PDL-1 Flag transfected Expi cell lysate

Lane 3 : SARS-Cov1 spike protein transfected Expi cell lysate

Lane 4 : SARS-Cov1 3xFlag spike protein transfected Expi cell lysate

Lane 5 : SARS-Cov2 spike protein transfected Expi cell lysate

Lane 6 : SARS-Cov2 3xFlag spike protein transfected Expi cell lysate

Lane 7 : MERS Spike protein transfected Expi cell lysate

Lane 8 : MERS 3xFlag Spike protein transfected Expi cell lysate

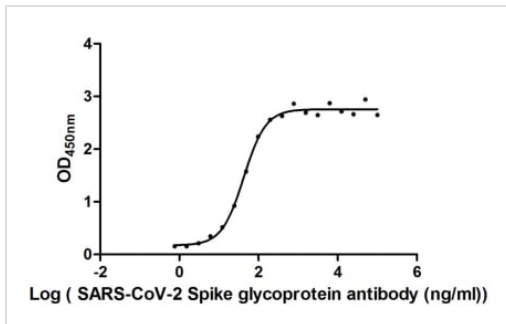
Lysates/proteins at 10 µg per lane.

Performed under reducing conditions.

Observed band size: 200 kDa

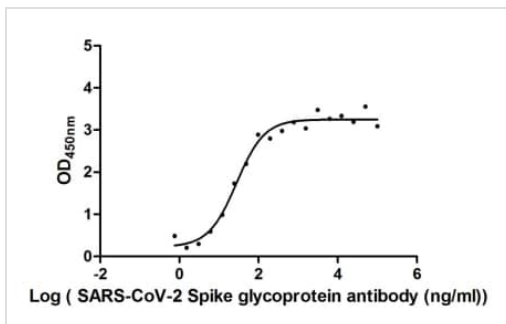
Lanes 1 - 8: Merged signal (red and green). Green - ab272854 observed at 200 kDa. Red - loading control.

ab272854 was shown to react with SARS-CoV-2 spike glycoprotein in western blot. Membranes were blocked in 3% milk before incubation with ab272854 overnight at 4°C at 1 µg/ml. Blots were incubated with Donkey anti-Mouse IgG H&L (IRDye® 800CW) preabsorbed (ab216774) antibody at 1 in 20000 dilution for 1 hour at room temperature before imaging.



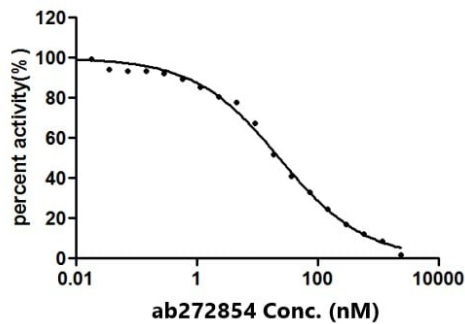
ELISA - Anti-SARS-CoV-2 spike glycoprotein antibody [H6] - Chimeric (ab272854)

Binding Activity of ab272854 with SARS-CoV-2 spike glycoprotein. Activity: Measured by its binding ability in a functional ELISA. Immobilized SARS-CoV-2 spike glycoprotein at 2 µg/ml can bind ab272854. The EC₅₀ of ab272854 is 36.79-48.87 ng/ml.



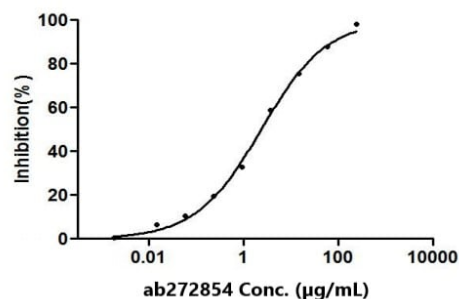
ELISA - Anti-SARS-CoV-2 spike glycoprotein antibody [H6] - Chimeric (ab272854)

Binding Activity of ab272854 with SARS-CoV-2-S1-RBD Activity: Measured by its binding ability in a functional ELISA. Immobilized SARS-CoV-2-S1-RBD at 2 µg/ml can bind ab272854, the EC₅₀ of SARS-CoV-2-S Antibody is 19.60-39.42 ng/ml.



Binding signal of Anti-SARS-CoV-2 spike glycoprotein antibody [H6] - Chimeric (ab272854) and SARS-CoV-2-S1-RBD was inhibited by ACE2 protein-HRP conjugated inhibitor with the IC_{50} 23.32 nM.

Functional Studies - Anti-SARS-CoV-2 spike glycoprotein antibody [H6] - Chimeric (ab272854)



Binding signal of Anti-SARS-CoV-2 spike glycoprotein antibody [H6] - Chimeric (ab272854) and SARS-CoV-2-S1-RBD was inhibited by ACE2 protein-HRP conjugated inhibitor with the IC_{50} 2.38 µg/mL.

Functional Studies - Anti-SARS-CoV-2 spike glycoprotein antibody [H6] - Chimeric (ab272854)

Why choose a recombinant antibody?



Research with confidence
Consistent and reproducible results



Long-term and scalable supply
Recombinant technology



Success from the first experiment
Confirmed specificity



Ethical standards compliant
Animal-free production

Anti-SARS-CoV-2 spike glycoprotein antibody [H6] - Chimeric (ab272854)

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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