

Catalog: #2830
Store at: -20°C
For Research Use Only. Not For Use In Diagnostic Procedures.

Applications	Detection	Clonality	Isotype
Functional Assay,ELISA	Anti-SARS-CoV-2 mAb	Monoclonal	Human IgG1k

Format: Unconjugated

Cross Reactivity: No

Formulation: 1X PBS

Preparation: Protein A

Reactivity: Other

Recommended Usage: For flow cytometric staining, the suggested use of this reagent is 5 µL per million cells or 5 µL per 100 µL of staining volume. It is recommended that the reagent be titrated for optimal performance for each application. See product image legends for additional information.

Immunogen: A recombinant SARS-CoV-2 spike protein containing RBD.

Description:

References:

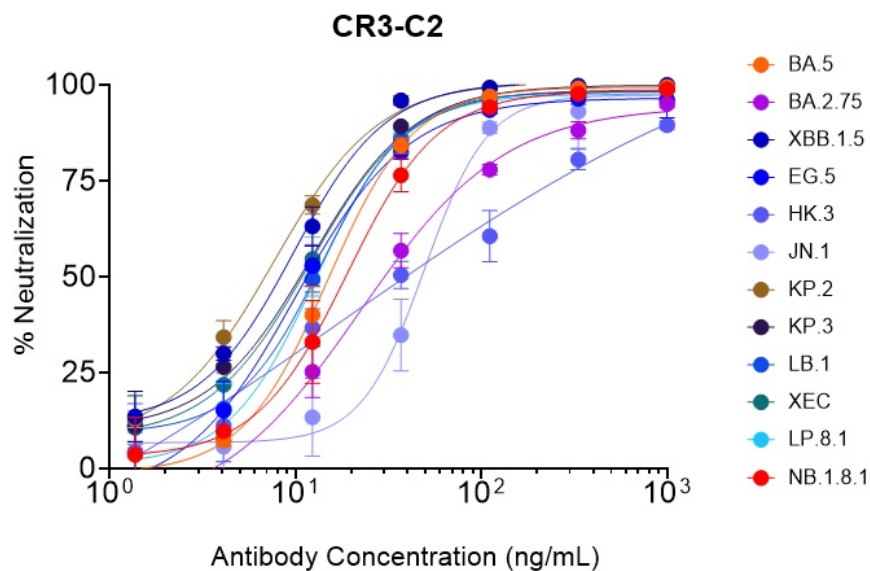
Abwiz Bio. (n.d.). SARS-CoV2 CR3-C2 human neutralizing mAb (SKU#2830). Retrieved from [Abwiz Bio product page for CR3C2] (While a direct URL for SKU#2830 was not found in the search results, the product “SARS-CoV2 CR3-C2 human neutralizing mAb” is listed and details about its functional assay are provided. For a specific link, please refer to the Abwiz Bio website product catalog.)

Abwiz Bio. (n.d.). Antibody Humanization Service. Retrieved from <https://www.abwizbio.com/antibody-humanization-and-optimization/>

Abwiz Bio. (n.d.). Antibody Affinity Maturation Services. Retrieved from <https://www.abwizbio.com/antibody-affinity-maturation/>

Jing, X., et al. (2023). Rapid engineering of SARS-CoV-2 therapeutic antibodies to increase breadth of neutralization including BQ.1.1, CA.3.1, CH.1.1, XBB.1.16, and XBB.1.5. EMBO Molecular Medicine, 15(7), e16828. (This article, while not directly featuring CR3C2 by name, discusses Abwiz Bio’s STEM technology for engineering broadly neutralizing antibodies against Omicron variants, which aligns with the description of CR3C2.)

Shi, R., et al. (2022). Human neutralizing antibodies for SARS-CoV-2 prevention and immunotherapy. Immunotherapy Advances, 2(1), Itab027. (Provides a general overview of human neutralizing antibodies for SARS-CoV-2.)



IC50 (ng/mL)

	BA.5	BA.2.75	XBB.1.5	EG.5	HK.3	JN.1	KP.2	KP.3	LB.1	XEC	LP.8.1	NB.1.8.1
Cat #	2688	2664	2712	2764	2772	2780	2800	2804	2812	2826	2834	2838
CR3-C2	15	22	10	10	18	50	8	12	14	12	13	19

Surrogate virus neutralization test (sVNT): ACE2 protein (Cat#2566) was coated at 2 ug/mL. CR3-C2 was serially diluted and incubated with 48 ng/mL of spike trimers at room temperature for 1 hour. The mixture was then added to blocked wells and incubated at room temperature for 1 hour. Bound spike trimers were detected with HRP-conjugated anti-His tag antibody (Jackson ImmunoResearch #300-035-240). The percentage of neutralization by the antibody was calculated along with IC50 values to determine the efficacy of neutralization.