Anti-Covid-19 & SARS-CoV Nucleocapsid [1C7C7] Bulk Size Ab02325-21.0-BT

This antibody does not have a J-chain and therefore presents as a hexamer, rather than a pentamer.

This reformatted mouse antibody was made using the variable domain sequences of the original Mouse IgG2a format, for improved compatibility with existing reagents, assays and techniques.

Isotype and Format: Mouse IgM, Kappa
Clone Number: 1C7C7
Alternative Name(s) of Target: nucleoprotein; NP; NC; Protein N; Nucleocapsid protein; SARS-CoV Protein N; SARS-CoV-2 Nucleocapsid protein; SARS Coronavirus; SARS-CoV-2; SARS CoV 2; 2019-nCoV; 1C7; severe acute respiratory syndrome virus
UniProt Accession Number of Target Protein: P0DTC9
Published Application(s): WB, ELISA, FC, IHC
Published Species Reactivity: SARS-CoV, SARS-CoV-2
Immunogen: The original version of this antibody was raised against SARS-CoV-1/2.
Specificity: This antibody specifically targets an epitope on the SARS-CoV-2 and SARS-CoV nucleocapsid protein and does not cross-react with the nucleocapsid of other common human coronaviruses, OC43 and 229E.
Application Notes: The antibody 1C7C7 detects SARS-CoV-2 and SARS-CoV-1 and can be used in affinity binding assays, flow cytometry, immunocytochemistry, and western blotting. Its effectiveness in detecting the nucleocapsid of the novel coronavirus causing COVID-19 was confirmed in multiple studies. For instance, it was used to analyze SARS-CoV-2 nucleoprotein extracted from infected cells via Western blot (Hoagland et al., 2020) ,and similarly by Blanco-Melo et al. in a study on imbalanced host response to SARS-CoV-2 (2020; pmid: 32416070). Another group has used this clone to stain infected cells fixed with 10% neutral formalin during a neutralization assay (Piepenbrink et al., 2020). Daniloski et al. performed similar staining procedure with 1C7C7 for a trans-complementation assay (2020; pmid: 33147445). Finally, this antibody was also used to stain SARs-CoV-2 infected cells in a study on in vitro susceptibility to SARS-CoV-2 infection (Dobrindt et al., 2020; pmid: 32995783).
Antibody First Published in: PMID:
Note on publication:

Product Form

Size: 500 µg Purified antibody in bulk size.
Purification: Affinity Purified using a recombinant lectin column
Supplied In: PBS only.
Storage Recommendation: Store at 4ºC for up to 3 months. Note, this antibody is provided without added preservatives, it is therefore recommed this antibody be handled under sterile conditions. For longer storage, aliquot and store at -20ºC.
Concentration: 1 mg/ml.

Important note – This product is for research use only. It is not intended for use in therapeutic or diagnostic procedures for humans or animals.