

## Anti-Covid-19 & SARS-CoV Nucleocapsid [1C7C7] Standard Size Ab02325-44.0

This chimeric cat 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:** Cat 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:** 50 µg Purified antibody.

**Purification:** Affinity Purified using a recombinant lectin column

**Supplied In:** PBS with 0.02% Proclin 300.

**Storage Recommendation:** Store at 4°C for up to 3 months. For longer storage, aliquot and store at -20°C.

**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.