Anti-SARS-CoV-2 and SARS-CoV nucleocapsid [mBG17] Bulk Size Ab02382-11.0-BT

This chimeric human antibody was made using the variable domain sequences of the original Mouse IgG1 format, for improved compatibility with existing reagents, assays and techniques.

Isotype and Format: Human IgG2, Kappa
Clone Number: mBG17
Alternative Name(s) of Target: NP; nucleoprotein; NC; Protein N; Nucleocapsid protein; SARS-CoV-2 Protein N; SARS-CoV-2 Nucleocapsid protein; SARS Coronavirus; SARS-CoV-2; SARS CoV 2; 2019-nCoV; 17; SARS-CoV nucleocapsid
UniProt Accession Number of Target Protein: P0DTC9
Published Application(s): WB, ELISA, IF
Published Species Reactivity: SARS-CoV, SARS-CoV-2
Immunogen: The original mouse IgG1 version of this antibody was raised by immunizing BALB/c mice with a recombinant SARS-Cov-2 N protein corresponding to AA133-419.
Specificity: mBG17 strongly recognizes SARS-CoV-2 N protein and SARS-CoV N protein. To lesser extent, it cross-reacts with the HuNL63 N protein. Western blot analysis with truncated fragments of N protein suggested that its epitope resides in AA381-419 at the C-terminal.
Application Notes: Specificty of the original mouse IgG1 version of this antibody to SARS-CoV-2 and SARS-Cov was confirmed by Specificty of the original mouse IgG1 version of this antibody to SARS-CoV-2 and SARS-Cov was confirmed by ELISA (Terry et al., 2021; pmid: 33714753). This antibody detected SARS-Cov-2 N protein in Western blot exhibiting labeling patterns suggesting a linear epitope (Terry et al., 2021; pmid: 33714753). mBG17 was shown to be very effective in staining SARS-Cov-2 N protein in immunofluorescence in SARS-Cov-2-infected Vero cells, both methanol and paraformaldehyde fixed (Terry et al., 2021; pmid: 33714753). Finally, the original version of mBG17 was demonstrated to be an effective detection antibody in a sandwich ELISA assay suggesting it's potential use in SARS-Cov-2 diagnostics (Terry et al., 2021; pmid: 33714753).
Antibody First Published in: Terry et al. Development of SARS-CoV-2 Nucleocapsid Specific Monoclonal Antibodies Terry JS, Anderson LB, Scherman MS, McAlister CE, Perera R, Schountz T, Geiss BJ. Development of a SARS-CoV-2 nucleocapsid specific monoclonal antibody. Virology. 2021 Jun;558:28-37. PMID:33714753
Note on publication: Describes the generation and characterization of novel anti-SARS-CoV-2 N protein

antibodies.

Product Form

Size: 1 mg Purified antibody in bulk size.
Purification: Protein A affinity purified
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.