Mouse Anti-SARS CoV-2 Nucleocapsid Protein (N12.8) Recombinant Antibody

No.:KF-ab0067

Expression Host: Nicotiana benthamiana plants

Clonality: Monoclonal, recombinant

Species and Isotype: Mouse IgG2a

Description: Recombinant mouse monoclonal antibody against SARS-CoV-2 Nucleocapsid protein, produced via Agrobacterium tumefaciens infiltration of Nicotiana benthamiana plants.

Verified Applications: Western blot, ELISA

Dilution Range: Western blot (1: 1 000 - 1: 2 000) ELISA (1: 1 000 - 1: 4 000)

Tested Species Reactivity : Human

Concentration : 1 mg/ml

Form : Liquid

Storage: Short-term (up to one week): 2 - 8 ° C
Long term: Aliquot and store at - 20 ° C
Store immediately. Aliquot and avoid multiple freeze-thaw cycles.

Storage Buffer: 0.1 M Phosphate Buffered Saline, pH 7.4.

Purification Notes: This product was purified using Protein A- affinity chromatography.

Purity: ≥ 90 % as determined by SDS-PAGE
94.20% as determined by Mass Spectrometry.

General Notes: For Research Use only, unless otherwise indicated.

Image:

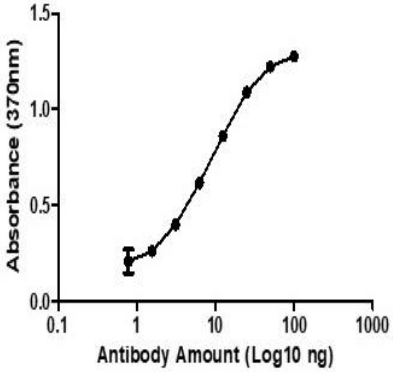

Figure 1. ELISA Dose Response curve showing increasing absorbance at 370 nm with increasing amounts of Mouse Anti-N (N12.8) detecting 1 ng/µl SARS-CoV-2 Nucleocapsid Phosphoprotein.

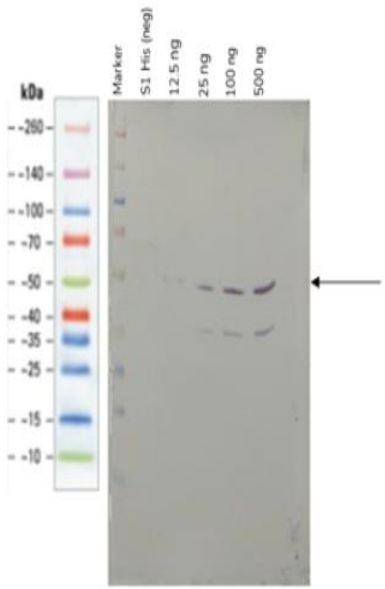

Figure 2. Western blot analysis of Mouse Anti-N (N12.8). Lanes 1 – 4: Varying amounts of SARS-CoV-2 Nucleocapsid (N) Phosphoprotein were run on the SDS-PAGE. Separated bands were transferred to the membrane and Mouse Anti-N (N12.8) (1: 1 000) was used to detect the antigen. The bands SARS-CoV-2 Nucleocapsid (N) Phosphoprotein (~46 kDa) were visualized in each lane following the addition of anti-mouse secondary antibody with HRP and substrate. Post translation cleavage of the N protein is seen at ~40kDa. Our antibody was able to detect antigen amounts upwards of 12.5 ng (Lane 3).