Human Anti-SARS CoV-2 Nucleocapsid Protein (HuN5) Recombinant Antibody

No.:KF-ab0069

Expression Host: Nicotiana benthamiana plants

Clonality: Monoclonal, recombinant

Species and Isotype: Human IgG1

Description: Recombinant human 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: 2 000 - 1: 5 000) ELISA (1: 10 000 - 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. Preservative: none

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

Purity: ≥ 90 % as determined by SDS-PAGE.
98.71 % as determined by Mass Spectrometry.

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

Image:

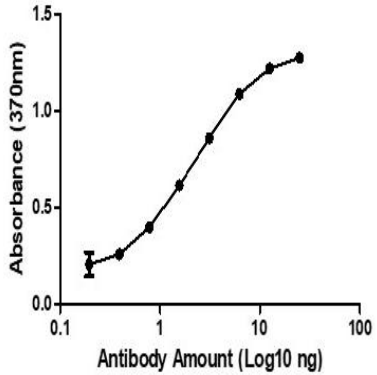

Figure 1: ELISA Dose Response curve showing increasing absorbance at 370 nm with increasing amounts of Human Anti-N (HuN5) used to detect 1 ng/µl of SARS-CoV-2 Nucleocapsid Phosphoprotein antigen.

Figure 2: Western blot analysis of Human Anti-N (HuN5). Lanes 2 – 6: Varying amounts of SARS-CoV-2 Nucleocapsid (N) Phosphoprotein were run on the SDS-PAGE. Separated bands were transferred to the membrane and Human Anti-N (HuN5) (1: 5 000) 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-human secondary antibody with HRP and substrate. Our antibody was able to detect antigen amounts upwards of 1 ng (Lane 6).