



Genesis Biotech Inc.

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Anti-SARS-CoV Protein X2 (3b), Rabbit-Polyclonal Antibody

Catalog No: GB-10230M **Quantity:** 250 μ l **Antigen species:** Synthetic SARS-CoV peptide
Reactivity: SARS-CoV **Applications tested:** ELISA, epitope mapping
Host species: rabbit **Type:** polyclonal antibodies **Form:** lyophilized antiserum

Target description

Severe Acute Respiratory Syndrome (SARS), an emerging disease characterized by atypical pneumonia, has recently been attributed to a novel coronavirus (SARS-CoV). The protein X2 was one of the nonstructural proteins of SARS-CoV (X1~X5), which epitopes were defined by parallel comparison of SARS-CoV infected and non-infected human sera with Epitoscreen™ peptide array. The protein X2 of SARS-CoV, also named SARS 3b, shares little homology with proteins of other members of the coronavirus. SARS 3b protein is a putative uncharacterized protein.

Antigen

This polyclonal antibody was raised by immunizing rabbit with synthetic peptide mixture containing amino acids on the C-terminal domain (119-149) of protein X2 (3b) of SARS-CoV. The antigen contained the epitope defined by Epitoscreen™ peptide array (Genesis Biotech Inc.).

Application

The antibody specificity was assayed by ELISA with the synthetic peptide antigen of protein X2 (3b) of SARS-CoV., which epitopes were defined by parallel comparison of SARS-CoV infected and non-infected human sera. The antibody titer is more than 5.5K for ELISA. It has not been tested in the other applications. However, for the first testing, we recommend 1/5,000 dilution for ELISA, 1/1000 dilution for Western blot analysis (WB) of recombinant protein, 1/400 dilution for tissue extracts or cell lysates, 1/100 dilution for immunohistochemistry (IHC) staining on frozen cryosections or paraffin embedded sections.

Ab dilution	Pre-bleed	Antiserum
1:1K	0.064	0.786
1: 10K	0.038	0.139
1: 100K	0.055	0.050
Titer		55k

Related Products

1. Anti-SARS-CoV N protein rabbit mAb (GB-61170)
2. Anti-SARS-CoV N protein rabbit pAb (GB-10168M)
3. Anti-SARS-CoV protein X2 (3b) rabbit pAb (GB- 10230M)
4. Anti-SARS-CoV spike protein rabbit pAb (GB- 10311M)
5. Anti-SARS- CoV spike protein rabbit pAb (GB- 10314M)
6. Anti-SARS- CoV spike protein rabbit pAb (GB- 10326M)
7. Anti-SARS- CoV spike protein rabbit pAb (GB- 10333M)
8. Anti-SARS- CoV 3CL mouse mAb (PG-20001)

Storage

It is supplied as lyophilized antiserum of polyclonal antibody. Rehydrate the lyophilized powder with 250 μ l sterile water will have the same concentration with original antiserum. Store at 4°C for short term application. For long-term storage, aliquot and store at -20°C.

References

1. Huang JP, Chen LH. The epitope profile of the SARS-CoV infected and non-infected sera. US Patent and Taiwan Patent pending (2003).
2. He, R., Dobie, F., Ballantine, M., Leeson, A., Li, Y., Bastien, N., Cutts, T., Andonov, A., Cao, J., Booth, T.F., Plummer, F.A., Tyler, S., Baker, L. and Li, X. BCCA Genome Sciences Centre, British Columbia Centre for Disease Control and National Microbiology Laboratory Canada. Analysis of multimerization of the SARS coronavirus nucleocapsid protein. *Biochem. Biophys. Res. Commun.* 316 (2): 476-483, 2004.
3. Snijder, E.J., Bredenbeek, P.J., Dobbe, J.C., Thiel, V., Ziebuhr, J., Poon, L.L., Guan, Y., Rozanov, M., Spaan, W.J. and Gorbalenya, A.E. Unique and conserved features of genome and proteome of SARS-coronavirus, an early split-off from the coronavirus group 2 lineage. *J. Mol. Biol.* 331 (5): 991-1004, 2003.