



Genesis Biotech Inc.

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Anti-SARS-CoV 3C-like Protease, Mouse-Monoclonal Antibody

Catalog No: PG-20003 **Quantity:** 100 μ l **Antigen species:** Recombinant SARS-CoV proteinR
Activity: SARS-CoV **Applications tested:** WB, IFA, FB **Host species:** mouse
Type: monoclonal antibodies **Form:** lyophilized ascites **Clone no.** 00306

Target description

Severe Acute Respiratory Syndrome (SARS), an emerging disease characterized by atypical pneumonia, has been attributed to a novel coronavirus (SARS-CoV). The SARS 3C-like protease (SARS_3CL(pro)) is a cysteine protease engaging in the proteolytic cleavage of the viral precursor polyprotein to a series of functional proteins required for coronavirus replication and is considered as an attractive target for therapeutics against SARS.

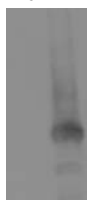
Antigen

This monoclonal antibody was raised by immunizing mouse with recombinant 3CL protein of SARS-CoV.

Application

The antibody specificity was assayed by SDS-PAGE/Western Blot (WB) analysis with the recombinant SARS-CoV 3CL protease. It has also been tested positively in the application of Immunofluorescent antibody (IFA) and functional blocking. However, for the first testing, we recommend 1/5,000 dilution for ELISA, 1/2,000 dilution for Western blot analysis (WB) of recombinant protein, tissue extracts or cell lysates, 1/100 dilution for immunohistochemistry (IHC) staining on frozen cryosections or paraffin embedded sections.

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Western blot analysis of the recombinant 3CL proteins expressed in *E. coli* using mouse monoclonal antibody PG20003(clone no. 00306). 10-fold dilution of the cultured medium of the hybridomas was used for WB analysis. The putative 3CL-PRO recombinant protein (synonym: non-structural protein 2 (nsp2)) after IPTG induction was detected on the predicted size (~34 KDa).

Related Products

1. Anti-SARS-CoV 3CL protease mouse mAb (PG-20001)
2. Anti-SARS-CoV 3CL protease mouse mAb (PG-20002)
3. Anti-SARS-CoV 3CL protease rabbit pAb (PG-10001)
4. Anti-SARS-CoV N protein rabbit pAb (GB-10168M)
5. Anti-SARS-CoV N protein mouse mAb (GB-51139)
6. Anti-SARS-CoV protein X2 (3b) rabbit pAb (GB-10230M)
7. Anti-SARS-CoV spike protein rabbit pAb (GB-10311M)
8. Anti-SARS-CoV spike protein rabbit pAb (GB-10314M)
9. Anti-SARS-CoV spike protein rabbit pAb (GB-10326M)
10. Anti-SARS-CoV spike protein rabbit pAb (GB-10333M)

Storage

It is supplied as lyophilized ascites of monoclonal antibody. Rehydrate the lyophilized powder with 100 μ l sterile water will have the same concentration with original ascites. Store at 4°C for short term application. For long-term storage, aliquot and store at -20°C.

References

1. Yeh, S.-H., Wang, H.-Y., Tsai, C.-Y., Kao, C.-L., Yang, J.-Y., Liu, H.-W., Su, I.-J., Tsai, S.-F., Chen, D.-S. and Chen, P.-J. Characterization of severe acute respiratory syndrome coronavirus genomes in Taiwan: Molecular epidemiology and genome evolution Proc. Natl. Acad. Sci. U.S.A. 101 (8), 2542-2547 (2004).
2. Du QS, Wang SQ, Zhu Y, Wei DQ, Guo H, Sirois S, Chou KC. Polyprotein cleavage mechanism of SARS CoV M(pro) and chemical modification of the octapeptide. Peptides. 2004 Nov; 25(11):1857-64.
3. Wu XD, Shang B, Yang RF, Yu H, Ma ZH, Shen X, Ji YY, Lin Y, Wu YD, Lin GM, Tian L, Gan XQ, Yang S, Jiang WH, Dai EH, Wang XY, Jiang HL, Xie YH, Zhu XL, Pei G, Li L, Wu JR, Sun B. The Spike Protein of Severe Acute Respiratory Syndrome (SARS) Is Cleaved in Virus Infected Vero-E6 cells. Cell Res. 2004 Sep 26 [Epub ahead of print]