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Anti-SARS-CoV 3C-like Protease, Rabbit-Polyclonal Antibody

Catalog No:PG-10001 **Quantity:**250 μl **Antigen species:** Recombinant SARS-CoV protein **Reactivity:** SARS-CoV **Applications tested:** WB, IFA, FB **Host species:**rabbit
Type: polyclonal antibodies **Form:** lyophilized serum

Target description

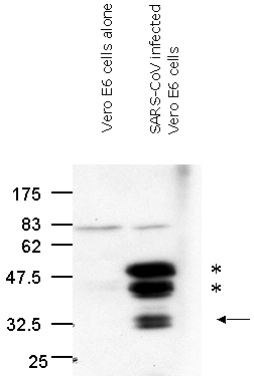
Severe Acute Respiratory Syndrome (SARS), an emerging disease characterized by atypical pneumonia, has been attributed to a novel coronavirus (SARS-CoV). The SARS 3C-like protease (SARS_3CL(pro)) is a cysteine protease engaging in the proteolytic cleavage of the viral precursor polyprotein to a series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

Antigen

This polyclonal antibody was raised by immunizing rabbit 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). 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.



Western blot analysis of the 3CL proteins expressed in the SARS virus-infected Vero E6 cells using rabbit polyclonal antibody PG10001. The SARS-CoV 3CL-PRO protein was detected on the predicted size (~34 KDa).Aggregated forms of 3CL (*) were also detected.

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 mouse mAb (PG-20003)
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 antiserum of polyclonal antibody. Rehydrate the lyophilized powder with 250 μl 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]