COSMO BIO CO., LTD.
Inspiration for Life Science

MONOCLONAL ANTIBODY

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Catalog No. BAM-65-101-EX

Anti-SARS Coronavirus spike glycoprotein, (Clone 3A2)

BACKGROUND

A novel type of coronavirus has been identified as the causative agent of SARS (Severe Acute Respiratory Syndrome). Spike glycoprotein is essential for the infection and directly binds to the virus receptor, ACE2 (Angiotensin-Converting Enzyme 2). Hybridoma 3A2 has been isolated by injecting mouse with SARS virus and as the clone which produces antibody that specifically reacts with the virus-infected cell (Fig. 1), in the laboratory of Prof. K. Ikuta of Osaka University. Monoclonal antibody 3A2 recognizes the spike protein consisting of 1181 amino acids, which migrates at 200 kDa position on SDS-PAGE (Fig. 2) due to its glyco-chains.

Product type	Primary antibodies
Host	Mouse
Source	
Form	Liquid Purified IgG 1 mg/ml in PBS (-), 50% glycerol, filter-sterilized, azide free
Volume	50 μg
Concentration	
Specificity	
Antigen	
Clone	3A2
Isotype	IgG2b (kappa)

Application notes

WB, Immunofluoresece staining (IHC), ELISA

Recommended use

Recommended dilutions

Western blotting: 0.1 - 0.3 ug/ml

Optimal dilutions/concentrations should be determined by the end user.

Staining Pattern

Cross reactivity

Storage

-20°C (long period, -80°C)

References

(This product has been used in reference 2.)

1) Satija N and Lal SK “The molecular biology of SARS coronavirus” *Ann N Y Acad Sci* **1102**: 26-38 (2007) PMID: 17470909
2) Yamate M *et al* “Establishment of Vero E6 cell clones persistently infected with severe acute respiratory syndrome coronavirus” *Microbes and Infect* **7**:1530-1540 (2005) PMID: 16269264

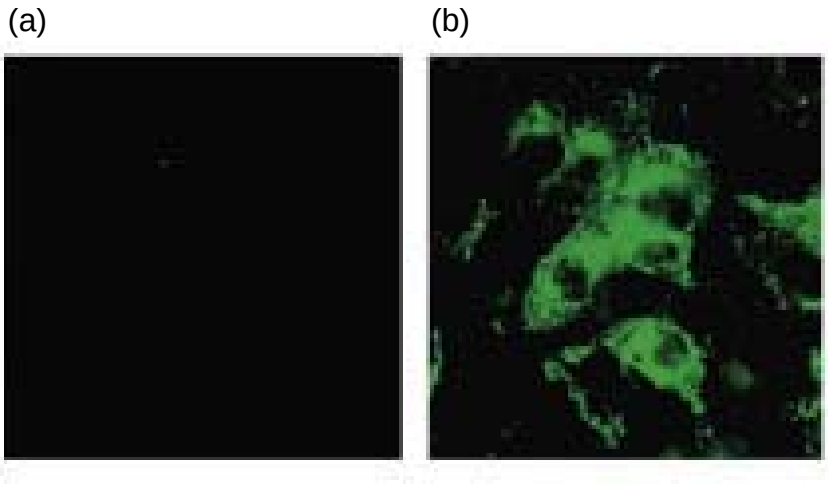

Fig 1. Identification of the spike antigen in the SARS virus infected cells by indirect immunostaining with 3A2 antibody. (a) Uninfected Vero E6 cells. (b) SARS virus infected Vero E6 cells.

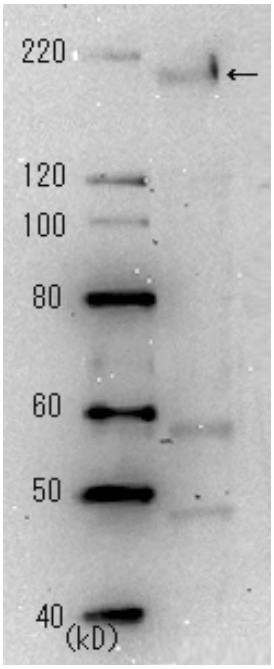

Fig 2. Identification of the spike glycoprotein in the crude extract of the SARS virus infected cells by Western blotting using 3A2 antibody at 10,000 fold dilution.

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