COSMO BIO CO., LTD.
Inspiration for Life Science

MONOCLONAL ANTIBODY

For research use only. Not for clinical diagnosis.

Catalog No. BAM-65-101

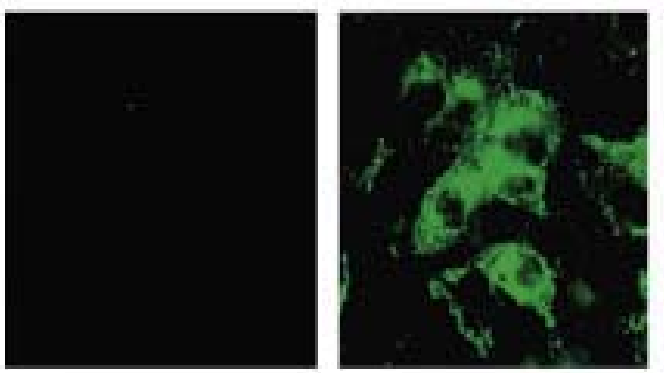
Anti-SARS Coronavirus Spike glycoprotein

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	Ascites
Form	Liquid
	Purified IgG 1 mg/ml in PBS (-), 50% glycerol, filter-sterilized, azide free
Volume	50 µg
Concentration	1 mg/ml
Specificity	SARS Coronavirus Spike glycoprotein
Antigen	SARS virus
Clone	3A2
Isotype	IgG2b κ

Application notes	WB, IF, ELISA
	Recommended use
	Recommended dilutions
	Western blotting (0.1~0.3 µg/ml)
	Optimal dilutions/concentrations should be determined by the end user.
	Staining Pattern
Cross reactivity	
Storage	-20°C (for long period, -80°C)
References	1) Satija N, Lal SK, The molecular Biology of SARS coronavirus. Ann. N. Y. Acad. Sci. 1102, 26-38 (2007)
	2) Yamate M. et al. Establishing of Vero E6 cell clones persistently infected with severe acute respiratory syndrome coronavirus. Microbes and Infection 7:1530-1540 (2005)



(a) (b)

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.

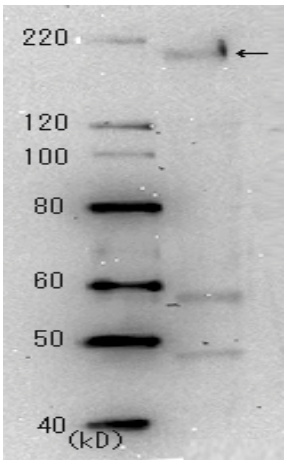


Fig 2. Identification of the spike glycoprotein in the crude extract of the SARS virus infected cells by western blotting using 3A2 antibody at 10,000 fold dilution.

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COSMO BIO CO., LTD.
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モノクローナル抗体

For research use only. Not for clinical diagnosis.

Catalog No. BAM-65-101

抗 SARS

BACKGROUND
重症急性呼吸器症候群（Severe Acute Respiratory Syndrome, SARS）の病原体は、新種のコロナウイルスと同定された。 大阪大学微生物病研究所の生田和良教授らのグループは、SARS ウイルスをマウスに接種し、モノクローナル抗体を産生するクローン 3A2 を単離した。
本品は 3A2 をマウス BALB/C の腹水へ注射し、その腹水から IgG を精製したものである。

Product type	一次抗体
Host	マウス
Source	腹水
Form	液状
	PBS (0.15M NaCl , 10mM リン酸ナトリウム緩衝液(pH7.2)), 50%グリセリン
Volume	50 µg
Concentration	1 mg/ml
Specificity	SARS
Antigen	SARS ウイルス
Clone	3A2
Isotype	IgG2b κ

Application notes WB, IHC, ELISA

Recommended use

Recommended dilutions
ウェスタンブロッティング（図 1）: 0.1~0.3 µg/ml

Staining Pattern

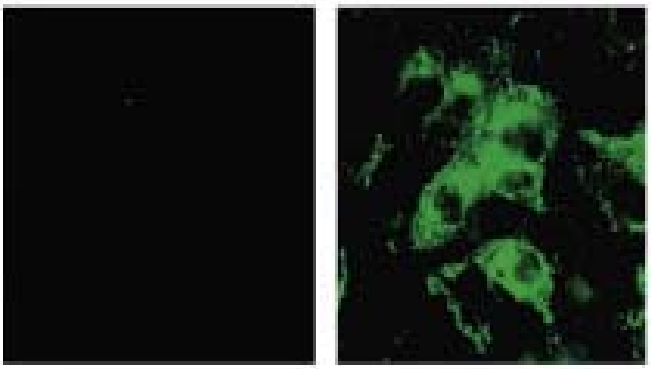
Cross reactivity

Storage -20°C (長期保存の場合は, -80°C)

References

1) Satija N, Lal SK, Ann. N. Y. Acad. Sci. 1102, 26-38 (2007) Review

2) Yamate M. et al. Establishing of Vero E6 cell clones persistently infected with severe acute respiratory syndrome coronavirus. Microbes and Infection 7:1530-1540 (2005)



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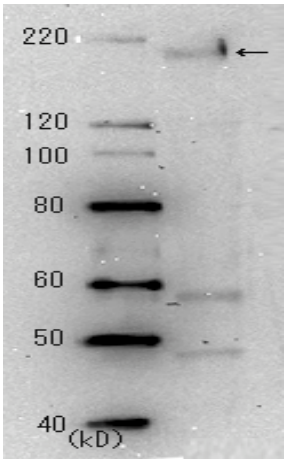

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