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

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.

For research use only. Not for clinical diagnosis.
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。

<table>
<thead>
<tr>
<th>Product type</th>
<th>一次抗体</th>
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<tbody>
<tr>
<td>Host</td>
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<tr>
<td>Source</td>
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<td>Form</td>
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<td>Specificity</td>
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<td>SARSウイルス</td>
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<tr>
<td>Isotype</td>
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**Application notes**
WB, IHC, ELISA

**Recommended use**

**Recommended dilutions**
ウェスタンプロッティング（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**

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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