Product datasheet

Anti-Dengue Virus NS1 glycoprotein antibody [DN2] ab41623

Overview

Product name: Anti-Dengue Virus NS1 glycoprotein antibody [DN2]
Description: Mouse monoclonal [DN2] to Dengue Virus NS1 glycoprotein
Host species: Mouse
Specificity: Recognises NS1 from both Dengue Virus 2 strains, 16681 and NGC.
Tested applications: Suitable for: Flow Cyt, WB, ICC/IF
Species reactivity: Reacts with: Dengue virus 2
Immunogen: Full length native protein purified from Dengue Virus 2 (16681) infected supernatant

Properties

Form: Liquid
Storage instructions: Shipped at 4°C. Store at +4°C short term (1-2 weeks). Store at -20°C or -80°C. Avoid freeze / thaw cycle.
Storage buffer: Preservative: 0.065% Sodium azide
Purity: Tissue culture supernatant
Clonality: Monoclonal
Clone number: DN2
Isotype: IgG1
Light chain type: kappa

Applications

Our Abpromise guarantee covers the use of ab41623 in the following tested applications.
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.
**Relevance**

NS1 is one of 7 Dengue Virus non-structural proteins which are thought to be involved in viral replication. NS1 exists as a monomer in its immature form but is rapidly processed in the endoplasmic reticulum to form a stable dimer. A small amount of NS1 remains associated with intracellular organelles where it is thought to be involved in viral replication. The rest of NS1 is found either associated with the plasma membrane or secreted as a soluble hexadimer. NS1 is essential for viral viability but its precise biological function is unknown. Antibodies raised in response to NS1 in viral infection can cross react with cell surface antigens on epithelial cells and platelets and this has been implicated in the development of Dengue Hemorrhagic fever.

**Application**

<table>
<thead>
<tr>
<th>Application</th>
<th>Abreviews</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flow Cyt</td>
<td>★★★★★</td>
<td>1/80. ab170190 - Mouse monoclonal IgG1, is suitable for use as an isotype control with this antibody.</td>
</tr>
<tr>
<td>WB</td>
<td></td>
<td>1/50 - 1/100. Use under non reducing condition. Predicted molecular weight: 40 kDa.</td>
</tr>
<tr>
<td>ICC/IF</td>
<td>★★★★★</td>
<td>1/5 - 1/20.</td>
</tr>
</tbody>
</table>

**Images**

ab41623 staining Dengue Virus NS1 glycoprotein (green) in Human BHK cells by ICC/IF (Immunocytochemistry/immunofluorescence). Cells were fixed and permeabilized with CytoFix/CytoPerm and blocked with 5% serum for 1 hour at 25°C. Samples were incubated with primary antibody (1/20) for 16 hours at 4°C. An Alexa Fluor® 488-conjugated Goat anti-mouse IgG polyclonal (1/200) was used as the secondary antibody.

This image is courtesy of an Abreview submitted by Lee Gehrike
Flow Cytometry - Anti-Dengue Virus NS1 glycoprotein antibody [DN2] (ab41623)

This image is courtesy of an Abreview submitted by Lee Gehrke

ab41623 staining Dengue Virus NS1 glycoprotein in HeLa cells at 62hpi with DV2 by Flow Cytometry. Cells were fixed and permeabilized with BD CytoFix/CytoPerm. The sample was incubated with the primary antibody (1/80 in CytoFix/CytoPerm) for 1 hour at 37°C. An Alexa Fluor® 488-conjugated Goat anti-mouse IgG (1/150) was used as the secondary antibody.

Gating Strategy: Single cells by FSC and SSC.

Western blot - Anti-Dengue Virus NS1 glycoprotein antibody [DN2] (ab41623)

All lanes: Anti-Dengue Virus NS1 glycoprotein antibody [DN2] (ab41623)

Lane 1: Dengue Virus 2 (NGC) infected C6/36 cell lysate (unheated)
Lane 2: Dengue Virus 2 (NGC) infected C6/36 cell lysate (boiled)
Lane 3: Dengue Virus 2 (16681) infected C6/36 cell lysate (unheated)
Lane 4: Dengue Virus 2 (16681) infected C6/36 cell lysate (boiled)

Predicted band size: 40 kDa
Observed band size: 40, 80 kDa

why is the actual band size different from the predicted?

NS1 exists as a dimer (~80 kDa) in unheated samples but is dissociated into a monomer (~40 kDa) when samples are boiled. Ab41623 recognised both forms of NS1.

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