### 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

**General notes**  
The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.

If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As

### Properties

<table>
<thead>
<tr>
<th><strong>Form</strong></th>
<th>Liquid</th>
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<tbody>
<tr>
<td><strong>Storage instructions</strong></td>
<td>Shipped at 4°C. Store at +4°C short term (1-2 weeks). Store at -20°C or -80°C. Avoid freeze / thaw cycle.</td>
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</table>
| **Storage buffer**  | Preservative: 0.1% Proclin 150  
Constituents: 10% BSA, 89.9% RPMI 1640 |
| **Purity**        | Tissue culture supernatant                       |
| **Clonality**     | Monoclonal                                      |
| **Clone number**  | DN2                                              |
| **Isotype**       | IgG1                                             |
| **Light chain type** | kappa                                           |
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.

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.
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

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.

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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