

## Product datasheet

# Anti-Dengue Virus NS1 glycoprotein antibody [DN2] ab41623

★★★★★ [2 Abreviews](#) [7 References](#) [2 Images](#)

### Overview

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

### Properties

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

## Applications

### The Abpromise guarantee

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.

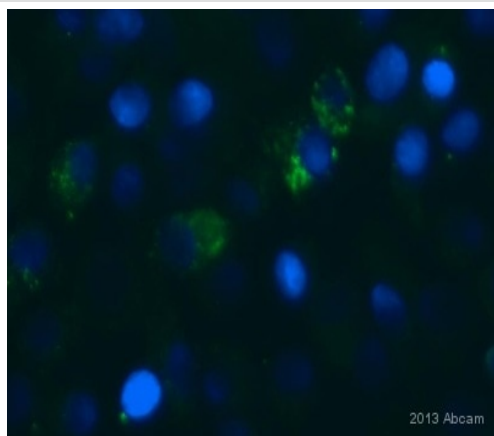
Application	Abreviews	Notes
Flow Cyt	★★★★★ (1)	Use at an assay dependent concentration. <b>ab170190</b> - Mouse monoclonal IgG1, is suitable for use as an isotype control with this antibody.
WB		1/50 - 1/100. Use under non reducing condition. Predicted molecular weight: 40 kDa.
ICC/IF	★★★★★ (1)	1/5 - 1/20.

## Target

### 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



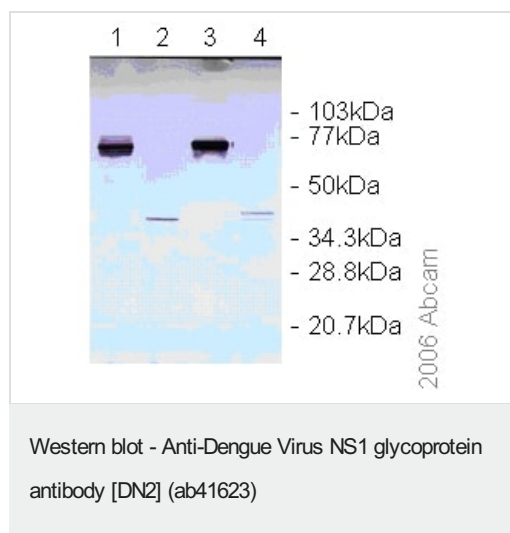
ab41623 staining Dengue Virus NS1 glycoprotein

(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.

Immunocytochemistry/ Immunofluorescence - Anti-Dengue Virus NS1 glycoprotein antibody [DN2] (ab41623)

This image is courtesy of an Abreview submitted by Lee Gehrke



**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"

### Our Abpromise to you: Quality guaranteed and expert technical support

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit <https://www.abcam.com/abpromise> or contact our technical team.

### Terms and conditions

- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors