Product datasheet

Anti-Dengue Virus NS1 glycoprotein antibody [DN2] ab41623

★★★★★ 2 Abreviews  6 References  2 Images

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: 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  Reproducibility is key to advancing scientific discovery and accelerating scientists’ next breakthrough.

Abcam is leading the way with our range of recombinant antibodies, knockout-validated antibodies and knockout cell lines, all of which support improved reproducibility.

We are also planning to innovate the way in which we present recommended applications and species on our product datasheets, so that only applications & species that have been tested in our own labs, our suppliers or by selected trusted collaborators are covered by our Abpromise™ guarantee.

In preparation for this, we have started to update the applications & species that this product is Abpromise guaranteed for.

We are also updating the applications & species that this product has been “predicted to work with,” however this information is not covered by our Abpromise guarantee.

Applications & species from publications and Abreviews that have not been tested in our own labs or in those of our suppliers are not covered by the Abpromise guarantee.

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, as well as customer reviews and Q&As.

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.

<table>
<thead>
<tr>
<th>Application</th>
<th>Abreviews</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<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>

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.

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.

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
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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

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