**Product datasheet**

**Anti-Dengue Virus NS1 glycoprotein antibody [DN3] ab41616**

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**Overview**

- **Product name**: Anti-Dengue Virus NS1 glycoprotein antibody [DN3]
- **Description**: Mouse monoclonal [DN3] to Dengue Virus NS1 glycoprotein
- **Host species**: Mouse
- **Tested applications**: Suitable for: WB, ICC/IF
- **Species reactivity**: Reacts with: Dengue virus 1, Dengue virus 2, Dengue virus 3, Dengue virus 4
- **Immunogen**: Full length native protein purified from Dengue Virus 2 (16681) infected supernatant.
- **Positive control**: It is important to ensure that DEN4 infection is effective. DEN4 is notoriously difficult to grow to good titres and NS1 antigens will not be found if infection is not well established.

**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**: DN3
- **Isotype**: IgG1
- **Light chain type**: kappa

**Applications**

Our Abpromise guarantee covers the use of ab41616 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.
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.

Predicted band size: 40, 80 kDa

Observed band size: 40, 80 kDa

why is the actual band size different from the predicted?

Recognises NS1 dimer (~80 kDa) in unheated samples and NS1
monomer (~40 kDa) when samples are boiled.

Dengue Virus 2 infected Vero cells stained according to protocol with **ab41349** antibody against Dengue Virus envelope glycoprotein NS1 (green). Cell nuclei are blue.

**Immunocytochemistry/Immunofluorescence - Anti-Dengue Virus NS1 glycoprotein antibody [DN3] (ab41616)**

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**Image from Heaton NS et al, Proc Natl Acad Sci U S A. 2010 Oct 5;107(40):17345-50. Epub 2010 Sep 20, Fig 2. DOI 10.1073/pnas.1010811107**

**ab41616** staining NS1 glycoprotein in Dengue Virus 2 infected Huh-7.5 cells by Immunocytochemistry/Immunofluorescence. Huh-7.5 cells were plated on glass coverslips, infected with Dengue Virus 2, fixed in methanol, and blocked, and antibody was added in 1× PBS + 0.1% saponin. Antibodies used include FASN polyclonal, left image (**ab3844**) or NS1 monoclonal antibody, middle image (**ab41616**). Secondary antibodies were species-appropriate Alexa-Fluor 488 or 594 secondary antibody. Stained coverslips were mounted with DAPI, right merged image.

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