

Anti-Dengue virus NS1 antibody, mouse monoclonal (DVN-01)

Product code	65-430
Size	100 µg
Storage	-20°C
Concentration	1.0 mg/ml
Buffer	PBS ⁻ with 50% glycerol
Purity	Purified IgG fraction with protein A from hybridoma cell culture medium
Immunogen	Recombinant Dengue virus (DENV) NS1 protein expressed in <i>E. coli</i> .
Isotype	mouse IgG2bk
Reactivity	DENV NS1, serotype 1,2,3 and 4
Validation	Specificity has been validated by western blotting
Application	1. Western blotting: x1/400-800 (Fig.1) 2. Immunofluorescence: x1/400 (Fig.2)
Background	Dengue fever virus (DENV) is an RNA virus of the family Flaviviridae; genus Flavivirus. Most are transmitted by arthropods (mosquitos or ticks). The DENV genome is about 11,000 bases of positive-sense, single-stranded RNA that codes for three structural proteins (capsid protein C, membrane protein M, envelope protein E) and seven nonstructural proteins (NS1, NS2a, NS2b, NS3, NS4a, NS4b, NS5). The NS1 protein have been developed as diagnostic biomarker for early detection and is a multifunctional protein actively secreted in vertebrate and mosquito cells during infection. DENV NS1 is a about 48kDa (46-55kDa) glycoprotein that is highly conserved among all flaviviruses. There are four serotypes, referred to as DENV-1, DENV-2, DENV-3 and DENV-4.
Data Link	UniProtKB: Q8QMI2_9FLAV (Dengue virus NS1)
Please note: All products are FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES. NOT FOR MILITARY USE.	

Data Images: 65-430 Anti-Dengue virus NS1 antibody, mouse monoclonal (DVN-01)

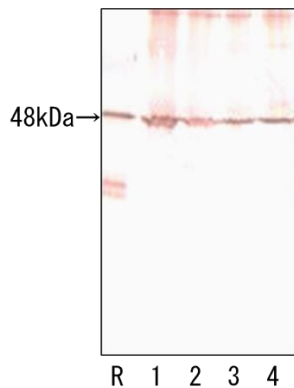


Fig.1. Western blot (WB) of DVN-01 antibody.

The recombinant DENV NS1 protein and the lysates of DNEV-infected B7 cells were applied to SDS-PAGE and WB: (R) recombinant DENV NS1 protein (0.36mg/ml), (1) lysate of infected cells with DNEV serotype 1, (2) serotype 2, (3) serotype 3, (4) serotype 4. The DVN-01 antibody was used at 1/400 dilution. The HRP-conjugated goat anti-mouse IgG was used at 1/4,000 as the second antibody and visualized by DAB (3,3'-Diaminobenzidine). A protein band 48kDa in size corresponds to the expected size of the DEVV NS1 protein.

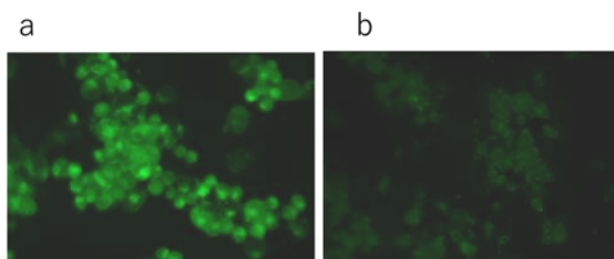


Fig.2. Immunofluorescence staining in DENV-infected Vero cells.

DENV-infected and uninfected cells on a slide glass were fixed with ethanol. (a) DENV (serotype 3) -infected Vero cells, (b) uninfected Vero cells. The DVN-01 antibody was used at 1/400 dilution. The FITC-conjugated goat anti-mouse IgG was used at 1/4,000 as the second antibody.

References This antibody has not yet been used in publication.