ARG65660
anti-Dengue virus NS1 antibody [SQab1501]

Package: 100 µg
Store at: -20°C

Summary

Product Description	Mouse Monoclonal antibody [SQab1501] recognizes Dengue virus NS1
Tested Reactivity	DEN
Tested Application	ELISA, ICC/IF, WB
Specificity	This antibody recognizes monomer, dimer, hexamer of DENV1/2/3/4 NS1 protein.
Host	Mouse
Clonality	Monoclonal
Clone	SQab1501
Isotype	IgG2a
Target Name	Dengue virus NS1
Species	Virus
Immunogen	Recombinant hexamer Dengue virus NS1 protein from drosophila cell
Conjugation	Un-conjugated
Alternate Names	Dengue virus NS1 antibody; Dengue virus nonstructural glycoprotein NS1 antibody

Application Instructions

Application table

Application	Dilution
ELISA	1:1000 - 1:15000
ICC/IF	1:200 - 1:1000
WB	1:3000 - 1:10000

Application Note: * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

Properties

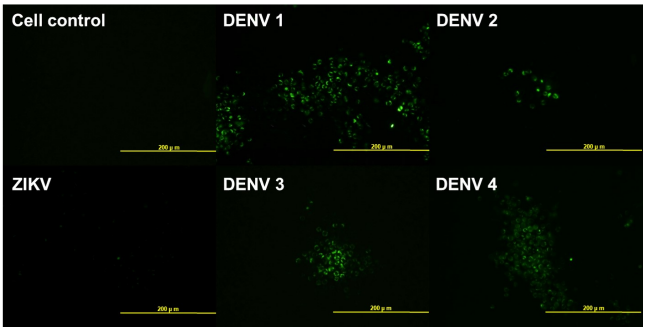
Form	Liquid
Buffer	PBS (pH 7.4), 0.01% Thimerosal, 1% BSA and 10% Glycerol.
Preservative	0.01% Thimerosal
Stabilizer	1% BSA and 10% Glycerol
Concentration	1 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.

Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

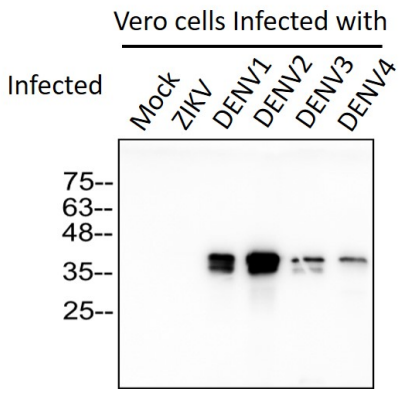
Gene Symbol	DENV_gp1
Gene Full Name	Dengue virus nonstructural protein 1
Background	Dengue virus NS1 protein is a nonstructural protein which could be secreted and have been developed as diagnostic biomarker for early detection. There are several forms of NS1 including monomer, dimer, and hexamer during infection. Dimeric NS1 can be anchored to cell membranes with glycosyl-phosphatidylinositol (GPI). Hexameric NS1 can be secreted and detected in patients' blood samples (up to 50 μg/mL) or infected cell supernatants (various from ng/mL to μg/mL depend on serotypes and strains). Studies have shown that NS1 could interfere complement activity and prothrombin activation. In addition, NS1 could elicit antibodies which cross-react with host antigens including coagulation factors and molecules expressed in endothelial cells and platelets through molecular mimic.
Function	Dengue virus (DENV) non-structural protein 1 (NS1) is involved in virus replication and regulation of the innate immune response. Soluble and membrane-associated NS1 may activate human complement and induce host vascular leakage. This effect might explain the clinical manifestations of dengue hemorrhagic fever and dengue shock syndrome. [Uniprot]
Highlight	Related products: Dengue Virus antibodies; Dengue Virus ELISA Kits; Dengue Virus Duos / Panels; Anti-Mouse IgG secondary antibodies; Related news: New Dengue Virus NS1 antibodies and Antibody Duo Fighting fire with fire: Genetically-engineered mosquitoes as an alternative to fight diseases Tools for studying Dengue Virus Exploring Antiviral Immune Response
Research Area	Microbiology and Infectious Disease antibody

Images



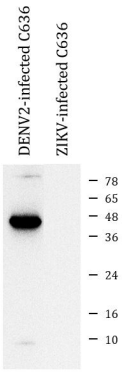
ARG65660 anti-Dengue virus NS1 antibody [SQab1501] ICC/IF image

Immunofluorescence: ARG65660 anti-Dengue virus NS1 antibody [SQab1501] (1:400) were used for detecting DENV NS1.



ARG65660 anti-Dengue virus NS1 antibody [SQab1501] WB image

Western blot: 6 μg of Vero cells Infected with 1) Mock, 2) ZIKV, 3) DENV1, 4) DENV2, 5) DENV3 and 6) DENV 4. Cell lysates were stained with ARG65660 anti-Dengue virus NS1 antibody [SQab1501] at 1:2000.



ARG65660 anti-Dengue virus NS1 antibody [SQab1501] WB image

Western blot: 6 µg of DENV2-infected C636 and ZIKV-infected C636 cell lysates stained with ARG65660 anti-Dengue virus NS1 antibody [SQab1501] at 0.5 µg/ml dilution.