

DESCRIPTION

Species Reactivity	Viral
Specificity	Detects viral Dengue Virus 1 NS1 protein in direct ELISAs.
Source	Monoclonal Mouse IgG _{2A} Clone # 973604
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Human embryonic kidney cell line HEK293-derived viral Dengue Virus 1 NS1 protein Asp776-Ala1127 Accession # P17763
Conjugate	Alexa Fluor 700 Excitation Wavelength: 675-700 nm Emission Wavelength: 723 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. [General Protocols](#) are available in the Technical Information section on our website.

ELISA Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

BACKGROUND

Dengue virus type 1 non-structural protein 1 (DENV1 NS1) is an approximately 50 kDa viral glycoprotein (1). Dengue viruses are mosquito-borne flaviviruses that exist in nature as four distinct serotypes (DENV1-4) (2). Dengue virus NS1 can be found associated with cell membranes, within cells and at the cell surface, or as secreted extracellular species. The secreted form of NS1 is known to be hexameric (1). Within cells, NS1 plays a significant role in virus replication and has been shown to co-localize with dsRNA and other components of viral replication complexes in viral-induced vesicle packets (1,3). Cell surface-associated and secreted NS1 are profoundly immunogenic, and both the protein itself and the antibodies it elicits have been shown to contribute to either protection or pathogenesis and innate immune evasion (1, 3). Mature DENV1 NS1 contains 352 amino acids (aa) and consists of 2 conserved N-glycosylation sites and 12 invariant cysteine residues that form six intramolecular disulfide bonds (3). Mature DENV1 NS1 shares 73%, 80%, and 69% aa sequence identity with DENV2, DENV3, and DENV4 NS1, respectively.

PRODUCT SPECIFIC NOTICES

This product is provided under an agreement between Life Technologies Corporation and R&D Systems, Inc, and the manufacture, use, sale or import of this product is subject to one or more US patents and corresponding non-US equivalents, owned by Life Technologies Corporation and its affiliates. The purchase of this product conveys to the buyer the non-transferable right to use the purchased amount of the product and components of the product only in research conducted by the buyer (whether the buyer is an academic or for-profit entity). The sale of this product is expressly conditioned on the buyer not using the product or its components (1) in manufacturing; (2) to provide a service, information, or data to an unaffiliated third party for payment; (3) for therapeutic, diagnostic or prophylactic purposes; (4) to resell, sell, or otherwise transfer this product or its components to any third party, or for any other commercial purpose. Life Technologies Corporation will not assert a claim against the buyer of the infringement of the above patents based on the manufacture, use or sale of a commercial product developed in research by the buyer in which this product or its components was employed, provided that neither this product nor any of its components was used in the manufacture of such product. For information on purchasing a license to this product for purposes other than research, contact Life Technologies Corporation, Cell Analysis Business Unit, Business Development, 29851 Willow Creek Road, Eugene, OR 97402, Tel: (541) 465-8300. Fax: (541) 335-0354.