

Product Data Sheet

Cat # AB-21122

Monoclonal Anti-Dengue Virus Type 1-4 (pan, NS1), culture medium

Size: 1 ml

Dengue virus (DENV) in one of four serotypes is the cause of dengue fever. It is a mosquito-borne single positive-stranded RNA virus of the family Flaviviridae; genus Flavivirus. All four serotypes can cause the full spectrum of disease. Its genome is about 11000 bases that codes for three structural proteins, capsid protein C, membrane protein M, envelope protein E; seven nonstructural proteins, NS1, NS2a, NS2b, NS3, NS4a, NS4b, NS5; and short non-coding regions on both the 5' and 3' ends. Further classification of each serotype into genotypes often relates to the region where particular strains are commonly found or were first found

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.

Antigen	Full length native protein purified from Dengue Virus 2 (16681) infected supernatant.
Ab Host/type	Mouse, Monoclonal , IgG1, hybridoma culture medium containing PBS, pH 7.5, 0.05% azide,
2-ab	Goat Anti-mouse IgG-HRP conjugate # 40320 (AP, biotin, FITC conjugates also available) or anti-mouse IgG1-HRP conjugates (#40126)
-ve control IgG	Isotype negative control mouse IgG1 #20102-101

Form and Storage:

Antibody (hybridoma culture medium) is supplied in PBS/0.05% azide or lyophilized in the same buffer. Store at 4°C. If supplied in powder then reconstitute it in 1 ml water and store in liquid at 4°C for ~1 week or aliquots in suitable size and store at -20°C for long term storage.

Specificity:

Recognises NS1 from both Dengue Virus DV1, DV2, DV3, DV4

Suggested Use:

ELISA: 1:100-1:2000 ICC/IF: 1:5-1:20
Western: 1:25-1:500 (NS1 exists as a dimer (~80 kDa) in unheated samples but is dissociated into a monomer (~40 kDa) when samples are boiled. Recombinant purified NS1 (type 2 protein) is available for use as positive control (#RP-1620).

This item is for LABORATORY RESEARCH USE ONLY.

Related Items

Catalog#	ProdDescription
540-100-DHG	Human Anti-Dengue Virus IgG ELISA
540-110-DHM	Human Anti-Dengue Virus IgM ELISA
540-120-DHG	Mouse Anti-Dengue Virus IgG ELISA
540-130-DHM	Mouse Anti-Dengue Virus IgM ELISA
AB-14310	Mouse Anti-Dengue Type 2 (envelop) IgG
AB-21120	Anti-Dengue Type 1-4 viruses antiserum
AB-21121	Monoclonal Anti-Dengue Virus Type 1-4 (pan)
AB-21122	Monoclonal Anti-Dengue Virus Type 1-4 (pan, NS1 glycoprotein), culture medium
AB-21123	Monoclonal Anti-Dengue Virus Type 2, NS1 glycoprotein, culture medium
RP-1594	Recombinant (E. coli) Dengue Virus Type 1 E Antigen (DENV E), antigen grade (>95% pure)
RP-1595	Recombinant (E. coli) Dengue Virus Type 2 E Antigen (DENV E), antigen grade (>95% pure)
RP-1596	Recombinant (E. coli) Dengue Virus Type 3 E Antigen (DENV E), antigen grade (>95% pure)
RP-1597	Recombinant (E. coli) Dengue Virus Type 4 E Antigen (DENV E), antigen grade (>95% pure)
RP-1598	Recombinant (E. coli) Dengue Virus Type 2 (and epitopes for type 1, 2, and 3) E Antigen (DENV E)
RP-1599	Recombinant (E. coli, his-tag) Dengue Virus NS1, Type 4 protein, full length
RP-1600	Recombinant (E. coli, his-tag) Dengue Virus NS1, Type 3 protein, full length
RP-1601	Recombinant (E. coli, his-tag) Dengue Virus NS1, Type 1 protein, full length
RP-1602	Recombinant (E. coli) Dengue Virus Type 1+4, 2, and 3 envelop proteins antigen grade (>95% pure)
RP-1603	Recombinant (E. coli) Dengue Virus Type 3 envelop protein (D-III), pure (>95%)
RP-1604	Recombinant (E. coli) Dengue Virus Type 4 envelop protein (D-III), pure (>95%)
RP-1605	Recombinant (E. coli) Dengue Virus Type 1 envelop protein (D-III), pure (>95%)
RP-1606	Recombinant (E. coli) Dengue Virus Type 1-4 envelop+NS domains, pure (>95%)
RP-1607	Recombinant (E. coli, his-tag) Dengue Virus NS1 Type 2 immunodominant protein
RP-1608	Recombinant (E. coli) Dengue Virus Type 1 N-terminus envelop immunodominant regions, pure (>95%)
RP-344	Recombinant Dengue Virus NS3 Type 1 protein
RP-345	Recombinant Dengue Virus NS1 c-end Type 2 protein
RP-346	Recombinant (E. coli, GST-tag) Dengue Virus NS1 n-end Type 2 protein
SP-100796-1	2A/2B Dengue Protease Substrate [Ac-Arg-Thr-Ser-Lys-Lys-Arg- pNA; MW: 937.08]
SP-100797-1	2B/3, Dengue Protease Substrate [Ac-Glu-Val-Lys-Lys-Gln-Arg- pNA; MW: 949.09]
SP-100800-1	3/4A, Dengue Protease Substrate [Ac-Phe-Ala-Ala-Gly-Arg-Lys- pNA; MW: 810.9]
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