

## Antibody Datasheet / Certificate of Analysis

<b>Product Name:</b>	Mouse anti-Dengue virus serotype 2 NS1
<b>Clone number:</b>	CM474
<b>Isotype:</b>	Mouse IgG
<b>Product code:</b>	AbDENVNS1-CM474-100
<b>Batch Number:</b>	TBC
<b>Immunogen:</b>	Recombinant Dengue virus NS1, a mixture of serotypes 1-4, from the Native Antigen Company
<b>Amount:</b>	100ug
<b>Concentration:</b>	1mg/ml
<b>Buffer:</b>	Phosphate Buffered Saline pH7.4
<b>Preservative:</b>	0.09% w/v sodium azide.
<b>Purification:</b>	Antibody was purified by affinity chromatography on Protein A
<b>Specificity:</b>	<p>This antibody is specific for the NS1 protein of Dengue virus serotype 2, and does not cross-react with NS1 from other Dengue virus serotypes strains. It also demonstrates negligible cross-reactivity with NS1 protein from Zika virus or other flaviviruses.</p> <p>No cross-reactivity is seen with Chikungunya virus E1, E2 or C proteins.</p>

**Applications:** Direct ELISA (NS1 antigen bound to plate).  
Immunofluorescence (see [Images](#)).

**Antigen background:** The NS1 protein is a major non-structural protein expressed by the Dengue Virus. The NS1 monomer is a glycosylated protein of approximately 45kD, which associates with lipids and forms a homodimer inside infected cells. It is necessary for viral replication, and is also secreted into the extracellular space as a hexameric lipoprotein particle, which is involved in immune evasion and pathogenesis by interacting with components from both the innate and adaptive immune systems, as well as other host factors. NS1 is one of the major antigenic markers for viral infection with Dengue.

With more than one-third of the world's population living in areas at risk of transmission, dengue infection is a leading cause of illness and death in the tropics and subtropics (*ref WHO for Guidelines for Diagnosis, Treatment, Prevention & Control, 2009*) As many as 100 million people are infected yearly. Dengue is caused by any one of four related viruses transmitted by mosquitoes. There are no vaccines available to prevent infection with dengue virus.

**Storage:** Store at +4°C for up to three months, or at -20°C for longer periods  
The antibody is shipped at ambient temperature.  
Avoid repeated freeze/thaw cycles.

## Direct ELISA data

An ELISA plate was coated with 100ng of antigen per well, then blocked with 2% BSA. Primary antibody was used at a concentration of 1ug/ml, and the detection antibody used was Goat anti-mouse IgG:HRP (Bio-Rad, 1:2000). The substrate used was TMB (KPL).

