

## Antibody Datasheet

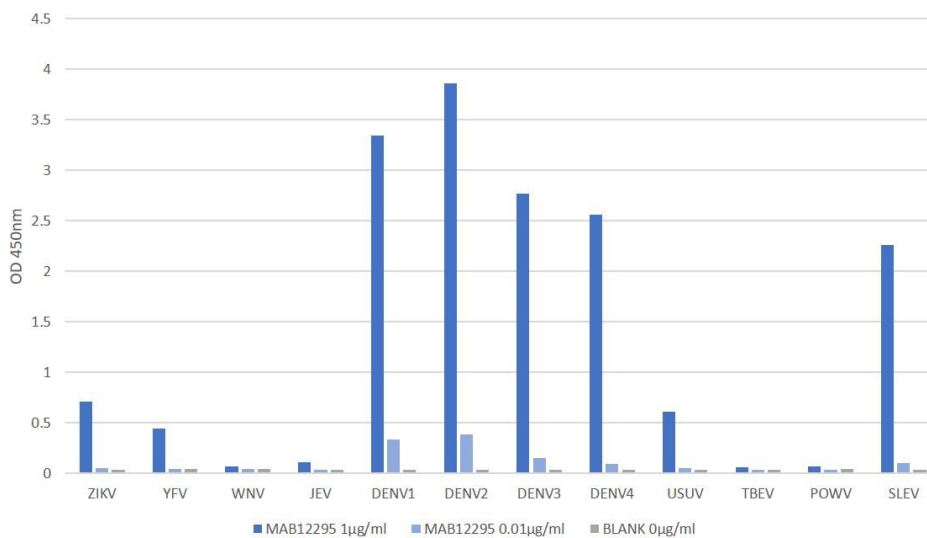
<b>Product Name:</b>	Mouse anti-Dengue virus NS1 antibody
<b>Clone number:</b>	EA1-C12-B8-E8
<b>Isotype:</b>	Mouse IgG
<b>Product code:</b>	MAB12295-100 MAB12295-500
<b>Batch Number:</b>	M-NAC-9A
<b>Immunogen:</b>	Full length recombinant NS1 proteins of Dengue virus (pool of serotypes 1, 2, 3 and 4) produced in HEK293 cells (available from the Native Antigen Company, product codes <a href="#">DENV1-NS1</a> , <a href="#">DENV2-NS1</a> , <a href="#">DENV3-NS1</a> and <a href="#">DENV4-NS1</a> )
<b>Amount:</b>	100µg 500µg
<b>Concentration:</b>	1.0 mg/ml
<b>Buffer:</b>	Phosphate Buffered Saline pH7.4
<b>Preservative:</b>	None present. 0.2µm filtered.
<b>Fusion partners:</b>	Spleen cells from immunised Balb/c mice were fused with cells from the SP2/0-Ag14 myeloma cell line.
<b>Purification:</b>	Antibody was purified from hybridoma cell culture supernatant by affinity chromatography on Protein G
<b>Specificity:</b>	This antibody recognises the NS1 protein of Dengue virus, detecting NS1 from Serotypes 1, 2, 3 and 4 in ELISA and western blot. It also demonstrates cross-reactivity with NS1 proteins from other flaviviruses (see data below). Cross-reactivity profiles may differ, depending on conditions are used.



**Applications:** [Capture antibody](#) for serotype specific NS1 detection against MAB12132 for DENV1, MAB12133 for DENV2, MAB12149 for DENV3 and MAB12179 for DENV4. Does not self-pair. Direct ELISA (NS1 antigen bound to plate), Western blot.

**Storage:** Store at +4°C for up to one week, or at -20°C for longer periods  
For long term storage at +4°C the addition of 0.09% w/v sodium azide is recommended.  
The antibody is shipped at ambient temperature.  
Avoid repeated freeze/thaw cycles.

**Direct ELISA:**

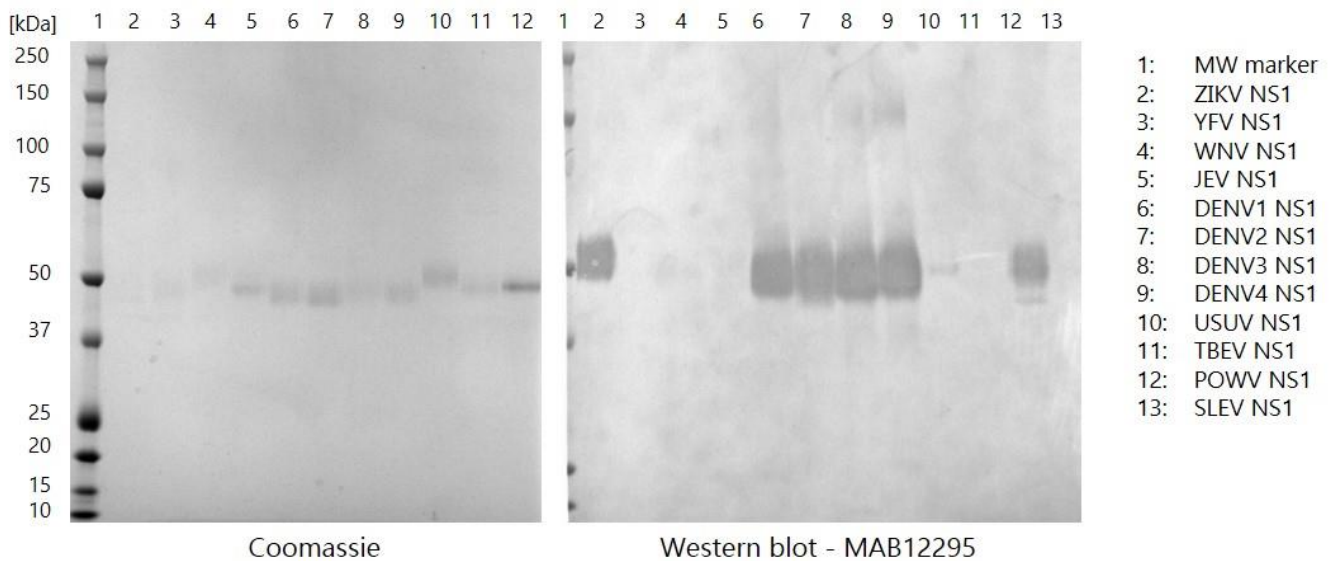


**Protocol:**

- **Plate coating:** Antigens coated at 0.5µg/ml.
- **Detection antibody:** Antibodies added at 1.0µg/ml.
- **Secondary antibody:** Goat anti-mouse IgG-HRP (Biorad, Cat: 103005) diluted 1:2500.
- **Detection:** SureBlue TMB substrate (KPL/Seracare).

**Western blot:**

SDS-PAGE and Western blot: 100ng of flavivirus NS1 antigen was separated by SDS-PAGE, in reducing conditions. Proteins were transferred using Transblot for 7 minutes at 25V. 5% dry milk in PBS-T was used as blocking buffer and dilution buffer for antibodies. Primary antibody was diluted 1:1000, and goat anti-mouse-IgG-HRP secondary antibody (Biorad 103005) was used at 1:1000. All steps were carried out for 1h at room temperature with gentle rocking. KPL Membrane TMB was used for detection. Development time ~30 seconds.



MAB12295 recognises NS1 antigen for all four Dengue virus serotypes (DENV1-4), Zika virus (ZIKV) and Powassan virus (POWV).