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Antibody Datasheet

Product Name:	Mouse anti Dengue virus pan serotype NS1 (FE8)
Clone number:	FE8-2-F11-B9-EF-G5
Isotype:	IgG1 Kappa
Product code:	MAB12356-100 MAB12356-500
Batch Number:	M-NAC-9A
Immunogen:	An equal mix of Dengue virus NS1 from serotypes 1-4, produced in HEK293 cells and available from the Native Antigen Company here.
Amount:	100µg 500µg
Concentration:	1.0 mg/ml
Buffer:	Phosphate Buffered Saline pH7.4
Preservative:	None present. 0.2µm filtered.
Fusion partners:	Spleen cells from immunised Balb/c mice were fused with cells from the SP2/0-Ag14 myeloma cell line.
Purification:	Antibody was purified from hybridoma cell culture supernatant by affinity chromatography on Protein G
Specificity:	This antibody recognises Dengue virus (DENV) NS1 protein in ELISA for all four serotypes. It shows some cross-reactivity with NS1 from Wesselsbron virus (WSLV), St. Louis encephalitis virus (SLEV) and Usutu virus. It shows little or no cross-reactivity in ELISA with NS1 from Zika virus (ZIKV), Tick-borne Encephalitis virus (TBEV), Japanese Encephalitis virus, Powassan virus, West Nile virus and Yellow Fever virus. In western blot it detects NS1 for all four Dengue virus serotypes and West Nile virus NS1, Japanese Encephalitis virus NS1, St. Louis

encephalitis virus (SLEV) NS1, Powassan virus NS1, Usutu virus NS1 and Yellow Fever virus NS1 (see data below).

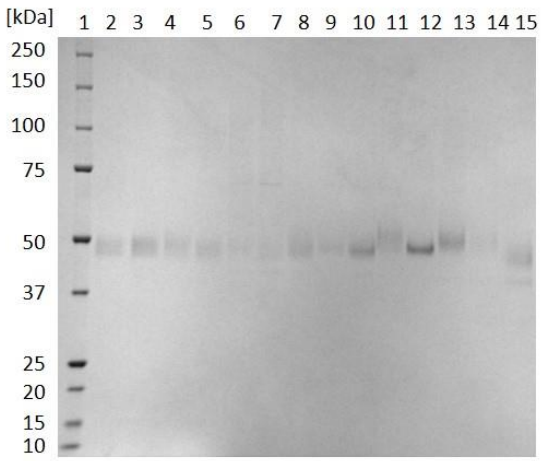
Applications: WB, ELISA

Secondary reagents: Goat anti mouse IgG:HRP (PAB21441HRP)
PanBlock ELISA Blocking Buffer (BUF81201)

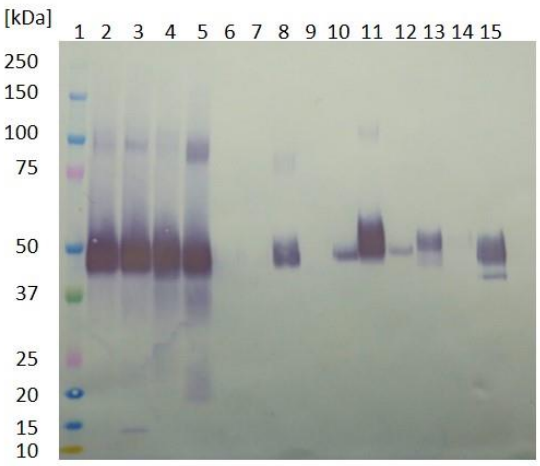
Storage: Store at +4˚C for up to one week, or at -20˚C for longer periods
For long term storage at +4˚C the addition of 0.09% w/v sodium azide is recommended.
The antibody is shipped at ambient temperature.
Avoid repeated freeze/thaw cycles.

Western Blot

100ng of each antigen was used for SDS-PAGE, in reduced form. 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 antibodies are given below, 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. Antibody detected all four Dengue virus serotypes and West Nile virus NS1, Japanese Encephalitis virus NS1, St. Louis encephalitis virus (SLEV) NS1, Powassan virus NS1, Usutu virus NS1 and Yellow Fever virus NS1.



Coomassie



MAB12356

1: MW marker
2: DENV1 NS1
3: DENV2 NS1
4: DENV3 NS1
5: DENV4 NS1
6: ZIKV (UG) NS1
7: ZIKV (SUR) NS1
8: WSLV NS1
9: TBEV NS1
10: JEV NS1
11: SLEV NS1
12: POWV NS1
13: USUV NS1
14: WNV NS1
15: YFV NS1

ELISA

All NS1 antigens coated at 0.5µg/ml in DPBS for 2h at RT. Plate washed 1X 300µl/well TBS + 0.1% Tween20, blocked 300µl/well DPBS+1% BSA for 1h. Antibody diluted to 1.0µg/ml and 0.01µgml in DPBS + 1% BSA + 0.05% T20. Added at 100µl/well, incubated shaken 2h room temperature. Plate washed 3X 300µl/well TBS-T wash buffer. Biorad goat anti-mouse IgG-HRP (103005) secondary antibody diluted 1 in 2500 in DPBS/1%BSA/0.05%T20, added at 100µl/well, incubated shaken 1h room temperature. Plate washed 6X 300µl/well TBS-T wash buffer. Detection by Europa TMB substrate, added at 100µl/well and the plate developed for 3 min. static on the bench. Reaction stopped with 100µl/well 1M HCL and the plate was read within 4 min. at 405nm.