



# Monoclonal Antibody 4G4

Target: Flavivirus NS1 protein

Produced in: Mouse

Isotype: IgG1

Specificity: Recognises most flaviviruses tested including Zika virus, West Nile virus, yellow fever virus, Japanese encephalitis virus, dengue type 2, dengue type 4, Murray Valley encephalitis virus and Kokobera virus. Does not recognise dengue type 1, dengue type 3, Edge Hill virus or Bamaga virus.

Applications: For Research Use Only

IFA, ELISA, Western blot and antigen capture ELISA.

IFA: shown to be effective following fixation using 4% formaldehyde or 100% acetone.

ELISA: Can be used in fixed cell ELISA following 4% formaldehyde or  $\geq 20\%$  acetone.

Storage: Contains 0.02% sodium azide as a preservative. Store at 4 °C.

Can be aliquoted and stored frozen, but repeated freeze/thawing should be avoided.

Publications: Clark DC, Lobigs M, Lee E, Howard MJ, Clark K, Blitvich BJ, Hall RA. (2007) In situ reactions of monoclonal antibodies with a viable mutant of Murray Valley encephalitis virus reveal an absence of dimeric NS1 protein. *J Gen Virol.* 88(Pt 4):1175-83.

Prow NA, Setoh YX, Biron RM, Sester DP, Kim KS, Hobson-Peters J, Hall RA, Bielefeldt-Ohmann H. (2014) The West Nile virus-like flavivirus Koutango is highly virulent in mice due to delayed viral clearance and the induction of a poor neutralizing antibody response. *J Virol.* 88(17):9947-62.

Setoh YX, Prow NA, Peng N, Hugo LE, Devine G, Hazlewood JE, Suhrbier A, Khromykh AA. (2017) De Novo Generation and Characterization of New Zika Virus Isolate Using Sequence Data from a Microcephaly Case. *mSphere.* 2(3). pii: e00190-17.

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