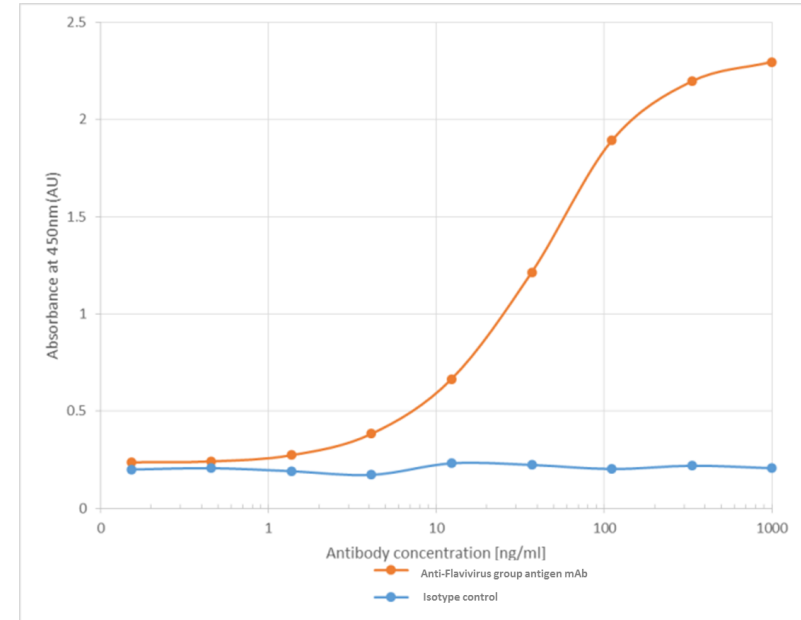


Anti-Flavivirus group antigen Antibody

CATALOG NO:	A1147-200
AMOUNT:	200 µg
ISOTYPE / FORMAT:	Mouse IgM, kappa
CLONALITY:	Monoclonal
CLONE:	D1-4G2-4-15 (4G2)
SPECIES REACTIVITY:	Dengue Virus; Zika Virus; West Nile Virus; Flaviviridae
IMMUNOGEN:	Dengue Virus type 2 antigens.
FORM:	Liquid
SPECIFICITY:	Recognises flavivirus group specific antigens (Dengue virus, West Nile Virus, Japanese Encephalitis, Zika virus etc). It binds to the fusion loop at the extremity of domain II of protein E.
PURIFICATION:	Affinity purified using Protein A
FORMULATION:	Supplied in PBS with preservative (0.02% Proclin 300)
STORAGE CONDITIONS:	Store at 4°C for upto 3 months. For long term storage, aliquot and freeze at -20°C. Avoid repeated freeze/thaw cycles.
DESCRIPTION:	Recombinant monoclonal antibody to Flavivirus group antigen. Manufactured using recombinant technology with variable regions (i.e. specificity) from the hybridoma D1-4G2-4-15 (4G2). This chimeric rabbit antibody was made using the variable domain sequences of the original murine IgG2a format, for improved compatibility with existing reagents, assays and techniques.
BACKGROUND:	This antibody binds to flavivirus group antigen, protein E. It can be used as an anti-Dengue virus antibody, anti-West Nile virus antibody, anti-Japanese Encephalitis or anti-Zika Virus antibody (Aubry <i>et al.</i> 2016) to identify cells infected with these flaviviridae. It binds to the fusion loop at the extremity of domain II of E protein from all four serotypes and prevents syncytia formation. The epitope is highly conserved amongst flaviviridae and has been functionally analyzed in detail by Crill and Chang 2004. Previous studies have used acetone- (Henchal <i>et al.</i> 1982) or methanol-fixed slides (Moreland & Tay, 2010). Please note that binding of this antibody has been reported to be sensitive to reduction and Western Blots should be performed under non-reducing conditions (Lai <i>et al.</i> 2008).
APPLICATION:	IF; WB; NTRL; ELISA; FC
REFERENCE:	Nawa <i>et al.</i> Development of dengue IgM-capture enzyme-linked immunosorbent assay with higher sensitivity using monoclonal detection antibody. J. Virol Methods



ELISA on Denge Virus-Like Particles: Dengue Virus Serotype 2 VLPs were coated onto a plate at 5µg/ml. Anti-flavivirus antibody were added to plate in a 3-fold serial dilution starting at 1000 ng/ml. Detection performed using HRP labelled goat anti-mouse IgG.

RELATED PRODUCTS:

- Anti-Flavivirus group antigen, Human IgG1 Antibody (**Cat. No. A1102**)
- Anti-Flavivirus group antigen Antibody (**Cat. No. A1145**)
- Anti-Human Ephrin Type A receptor 2 (1C1), Human IgG1 Antibody (**Cat. No. A1095**)
- Anti-Carcinoembryonic antigen (Arcitumomab), Human IgG1 Antibody (**Cat. No. A1096**)
- Anti-TNF alpha (Infliximab), Human IgG1 Antibody (**Cat. No. A1097**)
- Anti-IL-2R alpha (CD25) (Basiliximab), Human IgG1 Antibody (**Cat. No. A1098**)

FOR RESEARCH USE ONLY! Not to be used on humans.