

Product datasheet for **TA385829**

Group antigen Mouse Monoclonal Antibody [Clone ID: D1-4G2-4-15 (4G2)]

Product data:

Product Type:	Primary Antibodies
Clone Name:	D1-4G2-4-15 (4G2)
Applications:	ELISA, FC, IF, IHC, Neutralize, WB
Reactivity:	Dengue virus, West Nile Virus, Yellow Fever Virus
Host:	Mouse
Isotype:	IgG2a, kappa
Clonality:	Monoclonal
Immunogen:	Dengue Virus type 2 antigens.
Specificity:	Recognises flavivirus group specific antigens (Dengue virus, West Nile Virus, Japanese Encephalitis, Yellow Fever Virus, Zika virus etc). It binds to the fusion loop at the extremity of domain II of protein E.

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, anti-Yellow Fever Virus or anti-Zika Virus antibody (Aubry et al. 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 (Summers, 1989). The epitope is highly conserved amongst flaviviridae and has been functionally analyzed in detail by Crill and Chang 2004 (PMID: 15564505). Previous studies have used acetone- (Henchal et al. 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 et al. 2008). A version of 4G2 directly conjugated to APC was used by Quicke and co-workers (Quicke, 2016) to detect Zika virus in human placental macrophages by flow-cytometry (Quicke 2016). Ramaiah et al. (2016) used Ab00230-2.0 at a 1:200 dilution to stain for Zika virus in methanol-fixed Vero cells 48 h post-infection.

Formulation:	PBS with 0.02% Proclin 300.
Concentration:	lot specific
Conjugation:	Unconjugated
Storage:	Please store at 4°C for up to 3 months. For longer storage, aliquot and store at -20°C. Avoid freeze and thaw cycles.



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Stability: 3 years from dispatch.