

## Mouse anti-Dengue Env Antibody, Cl#4G2

Catalog: B7052

Package: 100 µg, 1 mg

Storage: - 20 °C

FOR RESEARCH USE ONLY  
NOT FOR USE IN HUMANS



## Product Data Sheet

PD-B7052 -Rev. A-05-2012

| Name         | Host  | Clone# | Isotype | Epitope        | Purification                | Application |
|--------------|-------|--------|---------|----------------|-----------------------------|-------------|
| Dengue E Mab | Mouse | 2G4    | IgG1    | Conformational | Ion exchange chromatography | Research    |

### Background

Dengue fever virus (DENV) is a RNA virus of the family *Flaviviridae*; genus *Flavivirus*. It is transmitted by several species of mosquito within the genus *Aedes*, principally *A. aegypti*, and causes dengue fever including dengue hemorrhagic fever. The dengue virus genome contains about 11 kbs which code for the three structure proteins (C, prM and E) that form the virus particle and seven non-structure proteins (NS1, NS2a, NS2b, NS3, NS4a, NS4b, NS5) that are only found in infected host cells and are required for replication of the virus. The NS1 is a versatile non-structural glycoprotein that is secreted as a hexamer, binds to the cell surface of infected and uninfected cells, and has immune evasive functions.

There are four serotypes of the virus, DENV-1, DENV-2, DENV-3 and DENV-4. Infection with one serotype is believed to produce lifelong immunity to that serotype but only short term protection against the others. The envelope protein (E) is the major target of neutralizing antibodies and vaccine development.

### Description

Mouse anti-pan dengue E protein monoclonal antibody clone 2G4 is generated against DENV-2 virus lysate and purified by ion exchange chromatography.

**Reactivity:** React to E proteins of DENV-1, -2, -3 and -4

**Concentration:** ≥ 2 mg/ml by OD280<sub>nm</sub>

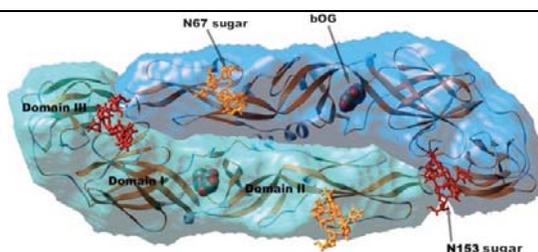
**Buffer:** 40 mM phosphate buffer, pH 7.2

**Preservatives:** 0.1% NaN<sub>3</sub>

**Purification:** Ion exchange chromatography

**Purity:** ≥ 95% on 12.5% SDS-PAGE

**Biosafety:** This product does not originate from humans, and does not contain infectious agents such as HIV, HCV and HBV.



Semitransparent surface representation of the dengue virus E protein. Fe'lix A. Rey, 2003, PNAS, 100(12):6899-6901

**Shelf Life:** 24 months at recommended storage condition

**Storage & Handling:** - 20 °C. Avoid repeated freeze-thawing

**QC Testing:** Per WI-82-04-04

### SDS-PAGE Analysis

