

Anti-DENV pr Antibody [Clone 47-2]

Catalog Number	LDG0013YA
Package	100 µg / Customized package

For full product information, images and publications, please visit [our website](#).



Overview

Description

Dengue virus belongs to the family Flaviviridae, genus Flavivirus and consists of four distinct serotypes (DENV1 to 4). Dengue virus is transmitted by mosquitos majorly of species *Aedes aegypti* and *Aedes Albopictus* that widespread around tropics and subtropics. During dengue virus maturation, host protease furin cleaves prM to M and pr. The peripheral pr peptide is retained on the virus particle at acidic pH. This virus-pr complex does not bind target membranes and thus to inhibit virus-membrane interaction and blocks virus fusion.

Product Note

Recommended dilution factor:

ELISA: 1:5000-20000

WB: 1:1000-5000

IFA: 1:500-1000

FACS: Assay dependent

Note: Working dilution for specific application should be determined by the investigator to obtain the best conditions.

Specifications

Host

Mouse

Clonality

Monoclonal

Isotype

IgG1

Clone Name

clone 47-2

Immunogen

Dengue virus Pr

Reactivity

Dengue virus

Application

ELISA, WB, IFA, FACS

Concentration

1 mg/mL

Specificity

pr

Conjugation

Unconjugated

Buffer

Phosphate Buffered Saline containing 0.03% ProClin 300, pH 7.4.

Form

Liquid

Instruction**Shipping**

The product is shipped with polar packs. Upon receipt, store it immediately at -20°C or lower for long term storage.

Stability & Storage

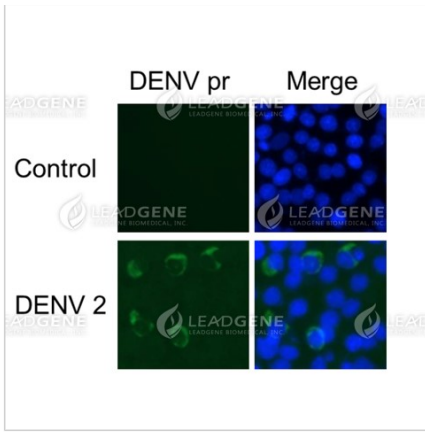
This product is stable after storage at:

- 2-8°C for 2 weeks under sterile conditions from date of receipt.
- -20°C or -80°C for 12 months under sterile conditions from date of receipt.

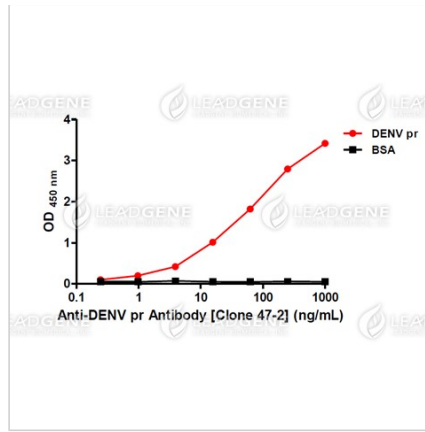
Avoid repeated freeze/thaw cycles.

Suggestion: Divide antibody into several vials. Keep only vials for usage at 2-8°C.

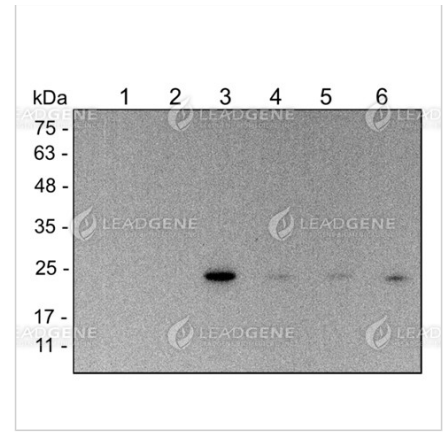
Image



Immunofluorescence analysis of Anti-DENV pr Antibody [Clone 47-2]
Control BHK cells (uninfected) and Virus (DENV 2) infection BHK cells were fixed in 4% PFA, permeabilized with PBS containing 0.1% Triton X-100.
Cells were stained with mouse anti-DENV pr monoclonal antibody followed by secondary antibodies (goat anti-Mouse IgG-iFluor 488, 1:400, green) and cell nuclei were stained with Hoechst 33342 (Blue).



ELISA titration of Anti-DENV pr Antibody [Clone 47-2]
Titration curve of anti-DENV pr antibody in ELISA. Red: pr; Black: BSA (negative control).



Western blotting analysis of Anti-DENV pr Antibody [Clone 47-2]
Virus infection BHK cell lysates were stained with mouse anti-DENV pr monoclonal antibody at 1:1000 dilution.
Lane 1: BHK cell lysate (10 µg), Lane 2: ZIKV infection (10 µg), Lane 3: DENV1 infection (10 µg), Lane 4: DENV2 infection (10 µg), Lane 5: DENV3 infection (10 µg), Lane 6: DENV4 infection (10 µg).

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