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Working

DENV Titration

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PROTOCOL STATUS

Working

We use this protocol in our group and it is working

Fixation of Cells

- 1 Prepare fixative - 80% methanol in water
- 2 Dump Methylcellulose overlay and blot on paper towels
- 3 Wash gently with 1X PBS. Incubate for 10 min. Blot and dry. ⌚ 00:10:00
- 4 Add 0.5 mL fixative to each well. Allow plates to sit at room temperature for 10 min.

*Note: Fixed cells can be stored at -70oC for future use. Leave methanol on cells when freezing.*

Antibody

- 5 Wash plates with PBS. Incubate for 10 min. ⌚ 00:10:00
- 6 Prepare antibody dilutions in 5% skim milk, PBS **[M]5 Mass/Volume Percent Skim Milk**

*If frozen plates are being used, incubate at 37oC for 30 min.*

4G2 1:2000

- 7 Add 200 µl to each well. Incubate at 37oC for 1 hour on a rocker. ⌚ 01:00:00

🌡 37 °C

Minimize contact with each well by maintaining contact of the pipette tip with the wall of well.

- 8 Dump off primary antibody solution and tap plates on paper towels to remove excess solution
- 9 Wash with 1 mL 5% skim milk, PBS
- 10 Prepare antibody dilutions in 5% skim milk, PBS.



Anti-mouse-Per 1:2,000

- 11 Add 200 µl to each well. Incubate at 37°C for 1 hour on a rocker. ⌚ 01:00:00 🌡 37 °C

Color Development

- 12 Dump off antibody solution. Tap on paper towels
- 13 Wash twice with PBS. Tap on paper towel
- 14 Add 160 µl of TrueBlue substrate per well
- 15 Place on rocker at RT until plaques develop (10 min or longer).
- 16 Dump off peroxidase substrate.
- 17 Count plates or incubate at 4°C for up to 7 days.



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