



Monoclonal Antibody 4.1H1

Target: Chikungunya virus (CHIKV) capsid protein

Produced in: Mouse

Isotype: IgG1

Specificity: Recognises CHIKV strains in the two major genotypes (Asian & East/Central/South African). Low affinity binding to the alphaviruses Ross River virus and Semliki Forest virus in ELISA.

Applications: For Research Use Only

IFA, ELISA, Western blot.

IFA: shown to be effective following fixation using 4% formaldehyde or 100% acetone.

ELISA: Can be used in fixed cell ELISA following 4% formaldehyde or $\geq 20\%$ acetone.

Storage: Contains 0.02% sodium azide as a preservative. Store at 4 °C.

Can be aliquoted and stored frozen, but repeated freeze/thawing should be avoided.

Publications: Goh LY, Hobson-Peters J, Prow NA, Gardner J, Bielefeldt-Ohmann H, Suhrbier A, Hall RA. (2015) Monoclonal antibodies specific for the capsid protein of chikungunya virus suitable for multiple applications. *J Gen Virol.* 96:507-12.

Goh LY, Hobson-Peters J, Prow NA, Baker K, Piyasena TB, Taylor CT, Rana A, Hastie ML, Gorman JJ, Hall RA. (2015) The Chikungunya Virus Capsid Protein Contains Linear B Cell Epitopes in the N- and C-Terminal Regions that are Dependent on an Intact C-Terminus for Antibody Recognition. *Viruses.* 8;7:2943-64.

Taylor A, Liu X, Zaid A, Goh LY, Hobson-Peters J, Hall RA, Merits A, Mahalingam S. (2017) Mutation of the N-Terminal Region of Chikungunya Virus Capsid Protein: Implications for Vaccine Design. *mBio.* 21;8(1).