

Anti-RRV E2 [D7] Bulk Size Ab00749-1.1-BT

This reformatted mouse antibody was made using the variable domain sequences of the original Mouse IgG format, for improved compatibility with existing reagents, assays and techniques.

Isotype and Format: Mouse IgG1, Kappa

Clone Number: D7

Alternative Name(s) of Target: RRV Envelope gp; Ross River Virus envelope glycoprotein; O'nyong-nyong VLP; Chikungunya VLP; CHIKV-VLP

UniProt Accession Number of Target Protein: Q88724

Published Application(s): labelling, ELISA, FC

Published Species Reactivity: Chikungunya virus, O'nyong-nyong virus, Ross River Virus

Immunogen: This antibody was raised by immunizing mice.

Specificity: This antibody is specific for the E2 envelope protein of RRV. This antibody is also reported to cross react with O'nyong-nyong VLP and Chikungunya VLP (CHIKV-VLP).

Application Notes: This antibody binds RRV E2, and has been used to stain RRV-positive cells and in FC analysis of E2 surface expression (Jupille, 2013). This antibody has also been used to detect RRV binding to HeLa cells, demonstrating that synthetic peptides representing the $\alpha 1 \beta 1$ integrin binding site on collagen IV are able to inhibit RRV binding to cells, thus implicating the $\alpha 1 \beta 1$ integrin as an RRV cell-binding receptor (La Linn, 2005). This antibody can be used for the detection of Ross river virus E2 protein, O'nyong-nyong VLP (ONNV VLP) and Chikungunya VLP (CHIKV-VLP) in an ELISA.

Antibody First Published in: Jupille et al. A Tyrosine-to-Histidine Switch at Position 18 of the Ross River Virus E2 Glycoprotein Is a Determinant of Virus Fitness in Disparate Hosts Journal of Virology, 2013, Vol. 87(10), p.5970 [PMID:23514884](#)

Note on publication: Describes the use of this antibody in FC and labelling studies.

Product Form

Size: 1 mg Purified antibody in bulk size.

Purification: Protein A affinity purified

Supplied In: PBS only.

Storage Recommendation: Store at 4°C for up to 3 months. Note, this antibody is provided without added preservatives, it is therefore recommended this antibody be handled under sterile conditions. For longer

storage, aliquot and store at -20°C.

Concentration: 1 mg/ml.

Important note – This product is for research use only. It is not intended for use in therapeutic or diagnostic procedures for humans or animals.