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12-8134: Anti-Ross River Virus (Clone: RRV-19)

Clonality :	Monoclonal
Clone Name :	RRV-19
Application :	ELISA
Alternative Name :	RRV
Isotype :	Human IgG1
Immunogen Information :	A panel of human mAbs were sequenced, including RRV-19, was generated from the peripheral blood mononuclear cells of two donors who were naturally infected with RRV

Description

Reactivity Species : Ross River-Virus
Expression Host : HEK-293
Product Concentration : ≥ 5.0 mg/ml
Specificity : RRV-19 activity is directed against the B domain of the E2 protein and was determined by alanine scanning mutagenesis using cell-surface expression of RRV proteins and flow cytometric screening were used to identify critical binding residues in the E2 glycoprotein. Loss of binding occurs when residue 221 on the B domain of the E2 protein is mutated. Furthermore, clone RRV-19 is capable of neutralizing virus in both pre- and post-attachment neutralization assays.

Antigen Distribution : Ross River Virus E2 is expressed on the surface of RRV.

Ross River Virus (RRV) is a mosquito-borne, positive sense, single-stranded virus endemic to Australia and Papua New Guinea that belongs to the arthritogenic group of alphaviruses. The mature glycoprotein is composed of E1 and E2 envelope proteins in a heterodimer, expressed as a trimeric spike on the virus surface .

RRV-19 is of the IgG1 isotype and is capable of binding and neutralizing prototype strain RRV T48 as well as clinical isolate strains PW7, SN11, PW14, 2897601, and O'Regan in focus reduction neutralization tests.

Product Info

Amount :	100 µg
Purification :	â‰¥95% monomer by analytical SEC
Content :	â‰¥ 5.0 mg/ml; This recombinant monoclonal antibody is aseptically packaged and formulated in 0.01 M phosphate buffered saline (150 mM NaCl) PBS pH 7.2 - 7.4 with no carrier protein, potassium, calcium or preservatives added
Storage condition :	Functional grade preclinical antibodies may be stored sterile as received at 2-8°C for up to one year. For longer term storage, aseptically aliquot in working volumes without diluting and store at â‰¥ -70°C. Avoid Repeated Freeze Thaw Cycles.

For Research Use Only. Not for use in diagnostic/therapeutics procedures.