

12-8132: Anti-Ross River Virus (Clone: RRV-12)

Clonality : Monoclonal

Clone Name : RRV-12

Alternative Name : RRV

Isotype : Human IgG1

Immunogen Information : A panel of human mAbs, including clone RRV-12, were sequenced 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

Endotoxin Level : ≤ 1.0 EU/mg as determined by the LAL method

Specificity: RRV-12 activity is directed against the E2 protein.

Antigen Distribution : RoE2 is expressed on the surface of RRV.

Background : 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 alphaviruses¹. The mature glycoprotein is composed of E1 and E2 envelope proteins in a heterodimer, expressed as a trimeric spike on the virus surface .

B cells were transformed with Epstein-Barr virus and then screened by direct virus binding ELISA. Hybridoma lines were established and mAbs were purified by single-cell flow cytometric sorting.

Clone RRV-12 is of the IgG1 isotype and is capable of binding and incompletely neutralizing prototype strain RRV T48 in a focus reduction neutralization test.

Product Info

Amount : 100 μ g

Purification : $\geq 95\%$ monomer by analytical SEC

Content : ≥ 5.0 mg/ml; Formulation 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 $\geq -70^{\circ}\text{C}$. Avoid Repeated Freeze Thaw Cycles.