

12-8133: Anti-Ross River Virus (Clone: RRV-86)

Clonality :	Monoclonal
Clone Name :	RRV-86
Application :	ELISA
Alternative Name :	RRV
Isotype :	Human IgG1
Immunogen Information :	A panel of human mAbs, including clone RRV-86, was generated from the peripheral blood mononuclear cells of two donors who were naturally infected with RRV

Product Info

Amount :	100 µg
Purification :	≥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 -70°C. Avoid Repeated Freeze Thaw Cycles.

Application Note

Reactivity Species : Ross River-Virus

Expression Host : HEK-293

Immunogen : A panel of human mAbs, including clone RRV-86, was generated from the peripheral blood mononuclear cells of two donors who were naturally infected with RRV.

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

Specificity : RRV-86 activity is directed against the arch region/B domain of the E2 protein which was determined by using 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.

Antigen Distribution : Ross River Virus E2 protein 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 alphaviruses. The mature glycoprotein is composed of E1 and E2 envelope proteins in a heterodimer, expressed as a trimeric spike on the virus surface .

Clone RRV-86 is of the human IgG1 isotype and is capable of binding and neutralizing prototype strain RRV T48 in a focus reduction neutralization test.