

12-8129: Anti-Japanese Encephalitis Virus (Clone: JEV-75)

Clonality :	Monoclonal
Clone Name :	JEV-75
Application :	ELISA
Alternative Name :	NamesJEV
Isotype :	Human IgG1 λ
Immunogen Information :	A panel of human mAbs against JEV, including JEV-75, was generated from donors immunized with a GIII vaccine strain (JEV-SA14-14-2)

Description

Reactivity Species : Japanese Encephalitis-Virus

Expression Host : HEK-293

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

Specificity : JEV-75 activity is directed against the E ectodomain, but not to E-DI or E-DIII. Furthermore, this human Mab showed no cross-reactivity to West Nile Virus or Zika Virus E proteins.

JEV-75 binds to the E ectodomain but not to DI or DIII. Alanine scanning mutagenesis at sites corresponding to the E ectodomain cause loss-of-binding at S275 in the DI-DII-hinge region, L180 in the DI-LR, N82 in the DII-LR, W217 in the DII-central interface, and DIII residue F308 in the A-strand epitope.

Background : Japanese Encephalitis Virus (JEV) is a mosquito-borne, enveloped, positive-stranded RNA virus in the Flavivirus genus endemic to Asia and parts of the western Pacific¹. Symptomatic JEV infection is most common in children in areas of endemicity or travellers to those regions. Severe symptoms occur in ~1% of cases, with a case-fatality ratio of 20–30%. Survivors often have serious neurologic, cognitive, or psychiatric sequelae. Five JEV genotypes have been identified and existing vaccines are derived from historically predominant GIII strains.

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.