

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

Clonality :	Monoclonal
Clone Name :	JEV-75
Application :	ELISA
Alternative Name :	NamesJEV
Isotype :	Human IgG1
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 Pacific. 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 -70°C . Avoid Repeated Freeze Thaw Cycles.