BACKGROUND

St. Louis encephalitis (SLE) is the most common viral encephalitis in the USA. Since the majority of people infected never actually display any symptoms, those who do exhibit flu-like symptoms confront a very serious life threat. Serious infections may cause high fever, headache, coma, neck stiffness, occasional convulsions, stupor, disorientation, tremors and spastic paralysis, while the most severe infections result in seizures, paralysis, double-vision and death. The elderly and the young are most at risk from SLE, and elderly people are much more likely to have fatal infections, with fatality ranging from 3-30%. Although mosquitoes transfer SLE from birds to humans, humans cannot further transmit the virus to other humans. Like all viruses, antibiotic treatments are not effective, and a vaccine does not exist; there is no cure for St. Louis encephalitis.

REFERENCES


SOURCE

St. Louis encephalitis (6B5A-2) is a mouse monoclonal antibody raised against purified St. Louis encephalitis virus, strain MSI-7.

Hybridoma cell line, St. Louis Encephalitis virus SLE 6B5a-2, provided to SCBT by the Centers for Disease Control and Prevention under a Biological Materials License Agreement.

PRODUCT

Each vial contains 200 µg IgG2a kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

APPLICATIONS

St. Louis encephalitis (6B5A-2) is recommended for detection of the envelope glycoprotein of St. Louis encephalitis, strain MSI-7 by immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended: 1) Immunofluorescence: use m-IgGκ BP-FITC: sc-516140 or m-IgGκ BP-PE: sc-516141 (dilution range: 1:50-1:200) with UltraCruz® Mounting Medium: sc-24941 or UltraCruz® Hard-set Mounting Medium: sc-359850.

STORAGE

Store at 4°C, **DO NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

RESEARCH USE

For research use only, not for use in diagnostic procedures.

PROTOCOLS

See our web site at www.scbt.com for detailed protocols and support products.