**St. Louis encephalitis (6B5A-2): sc-58035**

**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. 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. The elderly and the young are most at risk from SLE. 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 IgG<sub>kappa</sub> light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

St. Louis encephalitis (6B5A-2) is available conjugated to agarose (sc-58035 AC), 500 µg/0.25 ml agarose in 1 ml, for IP; to HRP (sc-58035 HRP), 200 µg/ml, for WB, IHC(1P) and ELISA; to either phycoerythrin (sc-58035 PE), fluorescein (sc-58035 FITC), Alexa Fluor® 488 (sc-58035 AF488), Alexa Fluor® 546 (sc-58035 AF546), Alexa Fluor® 594 (sc-58035 AF594) or Alexa Fluor® 647 (sc-58035 AF647), 200 µg/ml, for WB (RGB), IF, IHC(1P) and FCM; and to either Alexa Fluor® 680 (sc-58035 AF680) or Alexa Fluor® 790 (sc-58035 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FCM.

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**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-IgG<sub>kappa</sub> light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

**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.

**STORAGE**

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