



Rabies Virus (RV1C5): sc-57995

BACKGROUND

Rabies virus (neurotropic lyssavirus) is a member of the *Rhabdoviridae* family. Rabies is a single stranded, neurotropic, negative sense RNA virus whose genome encodes five proteins: a glycoprotein, a nucleoprotein and three other proteins. The mature virus is bullet shaped and has a protein coat with a lipid envelope. The outer surface of the virus is covered with thumb-like glycoprotein projections that are 5-10 nm long and 3 nm in diameter. The length of the virus averages approximately 780 nm. The ability of the Rabies Virus to infect hosts is destroyed by lipid solvents. Rabies is a very successful virus, with a broad range of susceptible hosts. Rabies Virus causes an acute central nervous system infection, characterized by CNS irritation, followed by paralysis and death. Approximately 50,000 human deaths each year are caused by Rabies Virus.

REFERENCES

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SOURCE

Rabies Virus (RV1C5) is a mouse monoclonal antibody raised against purified Rabies Virus.

RESEARCH USE

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

PRODUCT

Each vial contains 100 µg IgG_{2a} in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

APPLICATIONS

Rabies Virus (RV1C5) is recommended for detection of a glycoprotein of Rabies Virus by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000) and immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500).

Molecular Weight of Rabies Virus: 190 kDa.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use goat anti-mouse IgG-HRP: sc-2005 (dilution range: 1:2000-1:32,000) or Cruz Marker™ compatible goat anti-mouse IgG-HRP: sc-2031 (dilution range: 1:2000-1:5000), Cruz Marker™ Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048. 2) Immunofluorescence: use goat anti-mouse IgG-FITC: sc-2010 (dilution range: 1:100-1:400) or goat anti-mouse IgG-TR: sc-2781 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

STORAGE

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

PROTOCOLS

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