

VSV-G (vY-11): sc-138076

BACKGROUND

Vesicular stomatitis virus (VSV) is an arbovirus in the family Rhabdoviridae, order Mononegavirales. VSV infects insects and mammals. The genome of VSV is a negative-sense RNA strand that encodes five major proteins: glycoprotein (G), matrix protein (M), nucleoprotein (NC), large protein (L) and phosphoprotein. The L protein and the phosphoprotein combine to catalyze the replication of VSV's mRNA. After endocytosis, the G protein facilitates VSV's entry into the cell by controlling virus attachment to the host cell as well as fusion of the viral envelope with the endosomal membrane. Transport of the G protein from the endoplasmic reticulum (ER) to the plasma membrane (PM) is temperature sensitive. Because of this property, VSV is commonly used in research labs to study the properties of viruses in the Rhabdoviridae family, and to study viral evolution.

REFERENCES

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SOURCE

VSV-G (vY-11) is an affinity purified goat polyclonal antibody raised against a peptide mapping at the C-terminus of VSV-G origin.

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.

PRODUCT

Each vial contains 200 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-138076 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

VSV-G (vY-11) is recommended for detection of Glycoprotein G of VSV origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), 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 SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use donkey anti-goat IgG-HRP: sc-2020 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible donkey anti-goat IgG-HRP: sc-2033 (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 donkey anti-goat IgG-FITC: sc-2024 (dilution range: 1:100-1:400) or donkey anti-goat IgG-TR: sc-2783 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

PROTOCOLS

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


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Try **VSV-G (F-6): sc-365019** or **VSV-G (P5D4): sc-66180**, our highly recommended monoclonal alternatives to VSV-G (vY-11). Also, for AC, HRP, FITC, PE, Alexa Fluor® 488 and Alexa Fluor® 647 conjugates, see **VSV-G (F-6): sc-365019**.