Product Specification Sheet

**Vesicular Stomatitis Virus Matrix protein, Indiana (VSV-I M) Antibodies and Controls**

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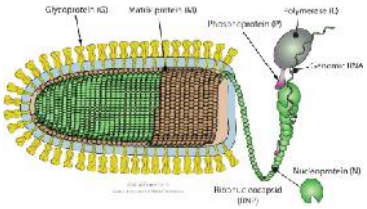
| ☐ VSIM-HNC | Human Anti-Vesicular Stomatitis Virus Matrix Protein, Indiana, (VSV-I M) IgG Negative Control Serum | 1 ml |
| ☐ VSIM-HPC | Human Anti-Vesicular Stomatitis Virus Matrix Protein, Indiana, (VSV-I M) IgG Positive Control Serum | 1 ml |
| ☐ VSIM-MNC | Monkey Anti-Vesicular Stomatitis Virus Matrix Protein, Indiana, (VSV-I M) IgG Negative Control Serum | 1 ml |
| ☐ VSIM-MPC | Monkey Anti-Vesicular Stomatitis Virus Matrix Protein, Indiana, (VSV-I M) IgG Positive Control Serum | 1 ml |

Vesicular stomatitis is a viral disease caused by two distinct serotypes of **vesicular stomatitis virus (VSV) —New Jersey (VSNJV or VSV-NJ) and Indiana (VSIV or VSV-I)**. Vesiculation, ulceration, and erosion of the oral and nasal mucosa and epithelial surface of the tongue, coronary bands, and teats are typically seen in clinical cases, along with crusting lesions of the muzzle, ventral abdomen, and sheath. Clinical disease has been seen in cattle, horses, and pigs and very rarely in sheep, goats, and llamas. Serologic evidence of exposure has been found in many species, including cervids, nonhuman primates, rodents, birds, dogs, antelope, and bats. The clinical symptoms are similar to the very important foot and mouth disease virus (FMDV).



The viruses are members of the family Rhabdoviridae and genus Vesiculovirus. VSV are the prototypes of the Vesiculovirus genus. They are bullet shaped and generally 180 nm long and 75 nm wide. The genomic structure is a single strand of negative-sense RNA (11.1 kb) composed of five genes (N, P, M, G, and L, representing the nucleocapsid protein, phosphoprotein, matrix protein, glycoprotein, and the large protein, which is a component of the viral RNA polymerase). The G protein mediates both viral binding and host cell fusion with the endosomal membrane following endocytosis. The L and P proteins are subunits of the viral RNA-dependent RNA polymerase. Although there are many members of the Vesiculovirus genus, the New Jersey and Indiana serotypes are of particular interest in the Western hemisphere. These two viruses are similar in size and morphology but generate distinct neutralizing antibodies in infected animals.

The simple structure and rapid high-titer growth of VSV in mammalian and many other cells has made it a useful tool in the fields of cellular, molecular biology, virology, and a shuttle vector for many vaccines such HIV, Ebola, etc.

**Source of Antibodies**

The positive serum tested positive with A450 values of >2.0. The negative serum produced A450 values of <0.3. Control sera are provide in PBS, pH 7.5 containing 0.1% proclin-300 (preservative) in liquid or lyophilized in the same buffer. Store liquid at 4oC for up to 3 months at 4oC or frozen in suitable size aliquots. Store powder at -20oC in. Reconstitute the powder in 1 ml water.

The controls may or may not be antibody positive against the whole VSIM.

Use undiluted in 50-100 ul per well or dilute as necessary depending upon the sensitivity of the detection.

**References**: Rose JK (1981) J. Virol. 39, 519-528; Colonno RJ (1978) Cell 15, 93-101; McGeoh DJ (1979) Cell 17, 673-681;

*This product is for In vitro research use only.

**Related material available from ADI**

VSIG11-S Anti-Vesicular Stomatitis Indiana Virus Glycoprotein, Indiana, (VSV-I G) Antiserum
VSIG15-R-10 Recombinant (E. Coli) Vesicular Stomatitis Virus Matrix Protein, Indiana (VSV-I M), his-tag, ~54 kDa; >95% Pure
VSIM12-S Rabbit Anti-Vesicular Stomatitis Indiana Virus Matrix Protein, Indiana (VSV-I M) Antiserum
VSIM16-R-10 Recombinant (E. Coli) Vesicular Stomatitis Virus Matrix Protein, Indiana, (VSV-I M) his-tag, ~29.5 kDa; >95% Pure
VSNG13-S Rabbit Anti-Vesicular Stomatitis Virus Glycoprotein, New Jersey (VSV-NG) Antiserum
VSNG17-R-10 Recombinant (E. Coli) Vesicular Stomatitis Virus Glycoprotein, New Jersey (VSV-NG), his-tag, ~55.1 kDa; >95% Pure
VSV11-Cy Monoclonal Anti-Vesicular Stomatitis Virus Glycoprotein (VSV-G)-Cy conjugate for Immunofluorescence
VSV11-HRP Monoclonal Anti-Vesicular Stomatitis Virus Glycoprotein (VSV)-IgG-HRP conjugate
VSV11-M Monoclonal Vesicular Stomatitis Virus Glycoprotein (VSV) Glycoprotein (fusion-tag) antibody, ascites
VSV12-A Anti-Vesicular Stomatitis Virus Glycoprotein (VSV)-IgG, aff pure

VSIM-HNC 150624C

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