

Product Specification Sheet

Monoclonal Anti-VSV (fusion tag) Antibodies

Cat. # VSV11-M	Mouse Monoclonal Anti-VSV, ascites	SIZE: 0.1 ml
Cat. # VSV11-HRP	Mouse Monoclonal Anti-VSV IgG-HRP Conjugate	SIZE: 0.1 ml
Cat. # VSV11-Cy	Mouse Monoclonal Anti-VSV IgG-Cy3 Conjugate	SIZE: 0.1 ml

Expression of genes in E. coli or yeast or baculovirus offers a convenient system to produce large amounts of recombinant proteins that may otherwise be difficult to isolate from natural cells and tissues. Very often antibodies to these newly identified proteins are not available to study its biochemical properties, monitor protein expression, and purification. In order to circumvent this problem, short pieces of well-defined peptides (Poly-His, Flag-epitope or c-myc epitope or HA-tag) or small proteins (bacterial GST, MBP, Thioredoxin, b-Galactosidase, VSV-Glycoprotein etc) are often cloned along with the target gene. Proteins are expressed as fusion proteins. Antibodies to these fusion-tags are already available to monitor fusion protein expression and purification. Therefore, fusion-tags serve as universal tags much like secondary antibodies. Many tags have their own characteristics. Poly-His-fusion proteins (6 x His) can bind to Nickel-Sepharose or Nickel-HRP. GST-fusion proteins can bind to glutathione-Sepharose. Therefore, a high degree of purification of fusion protein can be achieved in just one affinity purification step. Purity of fusion proteins can be followed by Tag-antibodies. Very often, fusion proteins are directly injected into animals to generate antibodies. Some fusion tags can be removed later by treatment with enzymes to generate tag-free recombinant proteins.

Source of Antigen and Antibodies

Antigen	a synthetic peptide containing 15-aa peptide (495-511 aa) (Cat # VSV11-P, control peptide) from the C-terminus of VSV (vesicular Stomatitis virus glycoprotein (VSV-G) (1). The peptide was coupled to KLH
Ab Host/type	Balb/c mouse. Splenocytes were fused with Sp2/0 myeloma cells. Resulting clone (designated VSV11, isotype IgG1), selected for reactivity with VSV-tag, was expanded into mice as ascites . Antibody has been purified by Protein A/G column chromatography (#VSV11-M). supplied in PBS pH 7.4 containing 0.05% azide. Store at 2-4oC for 2-4 weeks and at -20oC in suitable aliquots for long term storage
2-Ab	Goat Anti-mouse IgG-HRP conjugate Cat # 40320 (AP, biotin, FITC conjugates also available))
-ve control IgG	Cat # 20008-1, Mouse (non-immune) Serum IgG, purified, suitable for ELISA, Western, IHC as -ve control

VSV11-M Suggested antibody Dilutions

Western	1:1K-:10K
ELISA:	1:5K-:20K

Cat # VSV11-HRP: Anti-VSV IgG was purified using protein A/G column and purified IgG was coupled to HRP (**Cat # VSV11-HRP**) using glutaraldehyde method. Antibody:HRP molar ratio is ~1.0-1.5),. Anti-VSV-HRP conjugate is supplied in PBS, pH 7.4, 1% BSA containing 0.01% thimerosal as preservative. Do not add azide as it inhibits HRP activity. Store at 2-4oC for 2-4 weeks and at -20oC in suitable aliquots for long term storage. Do not store diluted (working solution) for more than a few hours.

Cat # VSV11-HRP Suggested Conjugate Dilutions

Western 1:500-:2K; ELISA: 1:1K-:10K

Cat # VSV11-Cy3: Anti-VSV IgG was purified using protein A/G column and purified IgG was coupled to fluorochrome dye (Cy3) for direct Immunofluorescence (**Cat # VSV11-Cy3**). F/P Molar ratio is 6-7. Anti-VSV-Cy3 conjugate is supplied in PBS, pH 7.4, 1% BSA containing 0.05% azide as preservative.

Store at 2-4oC for 2-4 weeks and at -20oC in suitable aliquots for long term storage. Do not store diluted (working solution) for more than a few hours.

Special properties of Cy3

Absorbance Max: 552 nm; Emission Max: 570 nm

VSV11-Cy3 Suggested Conjugate Dilutions

1:2000-1:10,000 was determined by direct immunofluorescence using Cos-7 cells transfected with a VSV-g tagged fusion protein.

Specificity of antibodies

Mouse Monoclonal anti-VSV (VSV11-M) specifically localized the immature form of the VSV-G in the RER and in the cisternae of golgi complex, as well as mature VSV-G at the surface and in the budding virus. The antibody does not stain the secreted form of VSV-G which lacks the membrane and the cytoplasmic domain.

General References: Soldati T et al (1991) Cell 66, 277; Kries TE et al (1986) Cell 46, 929; Kries TE et al (1986) EMBO J 5, 931.

*This product is for In vitro research use only.

Other Fusion tag antibodies available from ADI

Catalog#	ProdDescription
VSV11-Cy	Monoclonal Anti-VSV-G-Cy conjugate for Immunofluorescence
VSV11-HRP	Monoclonal Anti-VSV-IgG-HRP conjugate
VSV11-M	Monoclonal VSV-Glycoprotein (fusion-tag) antibody,
VSV12-A	Anti-VSV-IgG, aff pure

Anti-MBP, Poly-His, GST, beta-Gal, VSV-G, Flag, HA-tag, and c-myc
VSV11-M-HRP-Cy 71216A

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