Product Data Sheet  
**VSV-G-Tag Monoclonal Antibody**  
Catalog Number: ORF.VSVGMAB-50

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| **Product Details** | |
| **Product Name** | VSV-G-Tag Monoclonal Antibody |
| **Catalog Number** | ORF.VSVGMAB-50 |
| **Size** | 50 μL |
| **Concentration** | 1 mg/mL |
| **Clonality** | Monoclonal |
| **Source** | Mouse |
| **Isotype** | IgG |
| **Purification** | The antibody was purified by immunogen affinity chromatography. |

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| **Product Description** | | **Product Image** |
| The Vesicular Stomatitis Virus (VSV) G tag is derived from the glycoprotein of VSV, an enveloped RNA virus belonging to the Rhabdoviridae family. VSV G plays a critical role in viral assembly and budding from the plasma membrane of host cells. The commonly used VSV-G epitope tag corresponds to the sequence YTDIEMNRLGK, located in the extracellular membrane-proximal stem region of the glycoprotein, which is essential for efficient budding.  As a fusion tag, VSV-G enables convenient detection, localization, and characterization of recombinant proteins, especially when protein-specific antibodies are not available.  This monoclonal antibody specifically recognizes the VSV-G epitope and is optimized for Western blotting, providing sensitive and reliable detection of VSV-G–tagged proteins in research applications. | |  |
| **Product Specifications and Product Specific Information** | | |
| **Applications** | WB: 1:2000 – 1:5000  IF/IC: 1:200 – 1:500  IP: 1:100 – 1:200 | |
| **Reactivity** | N/A | |
| **Specificity** | Recognizes C-terminal, internal and N-terminal VSV-G-tag fusion proteins. | |
| **Immunogen** | KLH-conjugated synthetic peptide encompassing a sequence of VSV-G-tag.  The exact sequence is proprietary. | |
| **Description** | Mouse monoclonal antibody to VSV-G-tag | |
| **Buffer** | Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide. | |

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| **Storage and Stability** | | |
|  | **Temperature** | **Storage Time** |
| **Short Term** | 4°C | 1 month |
| **Long Term** | -20°C | 12 months |
| **Avoid repeated freeze-thaw cycles.** | | |

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| **Product Data** |
| Immunofluorescent analysis of VSV-G-tag staining in 293T cells transfected with a VSV-G-tag protein. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight. at 4 °C in a humidified chamber. Cells were washed with PBST and incubated with a DyLight 594-conjugated secondary antibody (red) in PBS at room temperature in the dark. DAPI was used to stain the cell nuclei (blue). |