Product Data Sheet  
**Flag-Tag Monoclonal Antibody**  
Catalog Number: ORF.FLAGMAB-50

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| **Product Details** | |
| **Product Name** | Flag-Tag Monoclonal Antibody |
| **Catalog Number** | ORF.FLAGMAB-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 DYKDDDDK tag, also known as the FLAG® tag, is an eight–amino acid epitope sequence (Asp–Tyr–Lys–Asp–Asp–Asp–Asp–Lys) used to facilitate protein purification, detection, and localization. It can be fused to either the N- or C-terminus of a target protein and enables efficient isolation and identification using anti-FLAG antibodies.  Optimized for compatibility, the FLAG tag is highly hydrophilic, minimizing the risk of protein denaturation or loss of activity upon tagging. Its versatility makes it widely applicable in protein-protein interaction studies, protein expression analysis, and cellular localization assays. | |  |
| **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 FLAG-tag fusion proteins | |
| **Immunogen** | KLH-conjugated synthetic peptide encompassing a sequence of FLAG-tag.  The exact sequence is proprietary. | |
| **Description** | Mouse monoclonal antibody to FLAG-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 FLAG-tag staining in 293T cells transfected with a Flag-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). |