Product Data Sheet  
**T7-Tag Monoclonal Antibody**  
Catalog Number: ORF.T7MAB-50

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| **Product Details** | |
| **Product Name** | T7-Tag Monoclonal Antibody |
| **Catalog Number** | ORF.T7MAB-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 T7 tag is an 11–amino acid epitope (sequence: MASMTGGQQMG) derived from the major capsid protein (gene 10) of bacteriophage T7. It is widely used as a fusion tag for recombinant proteins, enabling efficient detection and characterization in diverse expression systems.  Epitope tagging with T7 allows researchers to:   * Detect and localize recombinant proteins in various cell types. * Study protein topology and protein–protein interactions. * Identify binding partners and associated protein complexes. * Characterize low-abundance or poorly immunogenic proteins where specific antibodies are not available.   This monoclonal antibody specifically recognizes the T7 epitope and is optimized for Western blotting, providing sensitive and reliable detection of T7-tagged proteins in research applications. | |  |
| **Product Specifications and Product Specific Information** | | |
| **Applications** | WB: 1:2000 – 1:5000 | |
| **Reactivity** | N/A | |
| **Specificity** | Recognizes T7 tag fusion proteins. | |
| **Immunogen** | KLH-conjugated synthetic peptide encompassing a sequence of T7-tag.  The exact sequence is proprietary. | |
| **Description** | Mouse monoclonal antibody to T7-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** |
| Western blot analysis of over-expressed T7-tagged protein in 293T cell lysate. |