



## Product Data Sheet

### T7-Tag Monoclonal Antibody

Catalog Number: ORF.T7MAB-50

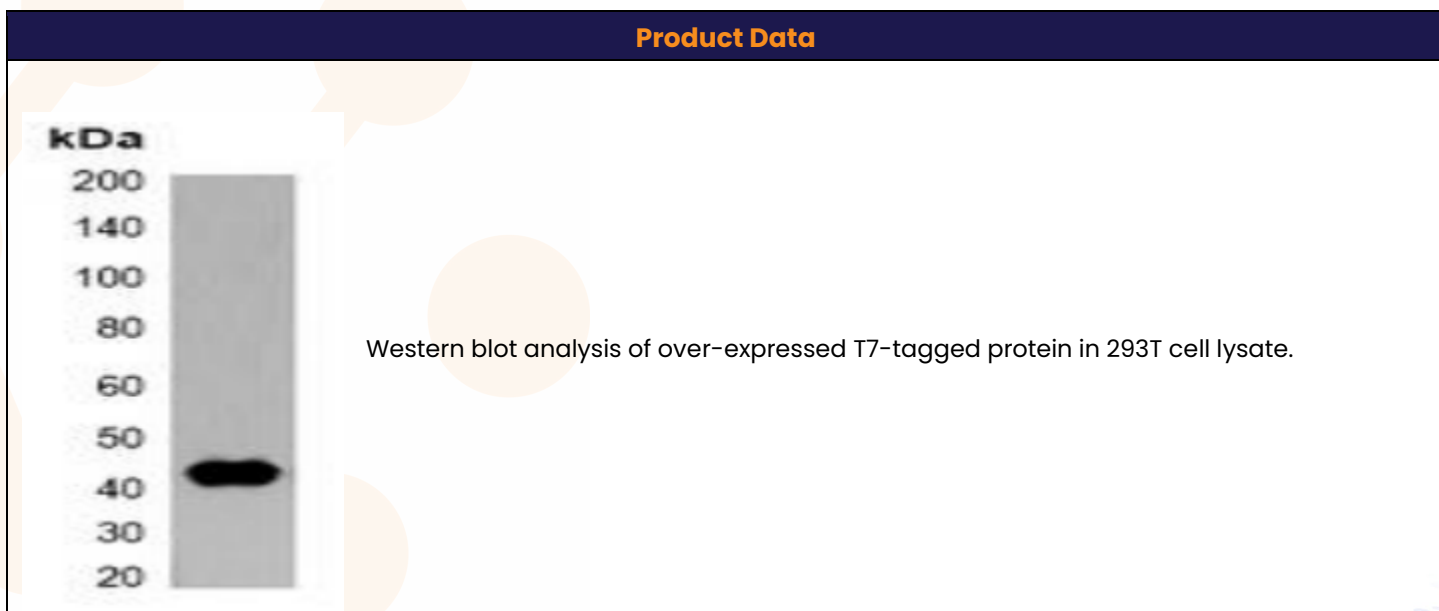
| Product Details       |                                                                 |
|-----------------------|-----------------------------------------------------------------|
| <b>Product Name</b>   | T7-Tag Monoclonal Antibody                                      |
| <b>Catalog Number</b> | ORF.T7MAB-50                                                    |
| <b>Size</b>           | 50 µL                                                           |
| <b>Concentration</b>  | 1 mg/mL                                                         |
| <b>Clonality</b>      | Monoclonal                                                      |
| <b>Source</b>         | Mouse                                                           |
| <b>Isotype</b>        | IgG                                                             |
| <b>Purification</b>   | The antibody was purified by immunogen affinity chromatography. |

| Product Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Product Image                                                                                                                                                                                                                                                              |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>The T7 tag is an 11-amino acid epitope (sequence: MASMTGGQMG) 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.</p> <p>Epitope tagging with T7 allows researchers to:</p> <ul style="list-style-type: none"> <li>• Detect and localize recombinant proteins in various cell types.</li> <li>• Study protein topology and protein-protein interactions.</li> <li>• Identify binding partners and associated protein complexes.</li> <li>• Characterize low-abundance or poorly immunogenic proteins where specific antibodies are not available.</li> </ul> <p>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.</p> | <p>The image shows a Western blot with molecular weight markers on the left ranging from 20 to 200 kDa. A single, prominent band is visible at approximately 45 kDa, demonstrating the specificity of the T7-Tag Monoclonal Antibody for detecting T7-tagged proteins.</p> |
| Product Specifications and Product Specific Information                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                            |
| <b>Applications</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | WB: 1:2000 – 1:5000                                                                                                                                                                                                                                                        |
| <b>Reactivity</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | N/A                                                                                                                                                                                                                                                                        |
| <b>Specificity</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Recognizes T7 tag fusion proteins.                                                                                                                                                                                                                                         |

*For research applications only. Not for diagnostic or therapeutic use.*

|                    |                                                                                                           |
|--------------------|-----------------------------------------------------------------------------------------------------------|
| <b>Immunogen</b>   | KLH-conjugated synthetic peptide encompassing a sequence of T7-tag.<br>The exact sequence is proprietary. |
| <b>Description</b> | Mouse monoclonal antibody to T7-tag                                                                       |
| <b>Buffer</b>      | Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide. |

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



*For research applications only. Not for diagnostic or therapeutic use.*