

## Recombinant CMV UL44 Antigen, His tagged, Biotinylated

**Cat. No.** UL44-066C    **Lot. No.** (See product label)

### SPECIFICATION

|                          |                                                                                                                                                                                                                                                                                    |
|--------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b>  | The CMV antigen pp52 has been prepared as a truncated recombinant antigen fused to a his-tag in its N-terminal and monobiotinylated in vivo. It is produced from the immunological regions of the UL44 gene, which codifies the DNA polymerase processivity subunit of CMV.        |
| <b>Species</b>           | CMV                                                                                                                                                                                                                                                                                |
| <b>Source</b>            | E.coli                                                                                                                                                                                                                                                                             |
| <b>Description</b>       | pp52 (UL44) is the DNA polymerase processivity subunit of CMV. It is a phosphorylated protein, with a high presence in the virus and DNA binding capacity. pp52 corresponds to an immediate early antigen. It is one of the serological targets for detection of CMV-specific IgM. |
| <b>Tag</b>               | N-His                                                                                                                                                                                                                                                                              |
| <b>Conjugation/Label</b> | Biotin                                                                                                                                                                                                                                                                             |
| <b>Molecular Mass</b>    | Determined by SDS-PAGE, the protein band is at the molecular marker of 25 kDa, while relative molecular mass calculated from amino acid sequence is 21,968.5 Da.                                                                                                                   |
| <b>Purity</b>            | > 95% by observation on SDS-PAGE electrophoresis                                                                                                                                                                                                                                   |
| <b>Applications</b>      | WB, DB, CE, NP, PO                                                                                                                                                                                                                                                                 |

 Tel: 1-631-559-9269    1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)     Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

|                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Storage</b>        | Upon arrival, it should be aliquoted to avoid repeated freezing and thawing cycles and stored at -20 to -80 centigrade. In order to defrost the protein, maintain the aliquot at 25 centigrade without shaking to avoid aggregation.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Storage Buffer</b> | 20 mM phosphate buffer pH 6 and 0.15 M NaCl                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Concentration</b>  | 2.14 mg/mL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Shipping</b>       | Protein is shipped with dry ice.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Reference</b>      | <p>1. Maine, G.T., R. Stricker, M. Schuler, J. Spesard, S. Brojanac, B. Iriarte, K. Herwig, T. Gramins, B. Combs, J. Wise, H. Simmons, T. Gram, J. Lonze, D. Ruzicki, B. Byrne, J. D. Clifton, L. E. Chovan, D. Wachta, C. Holas, D. Wang, T. Wilson, S. Tomazic-Allen, M. A. Clements, G. L. Wright, Jr., T. Lazzarotto, A. Ripalti, and M. P. Landini. Development and Clinical Evaluation of a Recombinant-Antigen-Based Cytomegalovirus Immunoglobulin M Automated Immunoassay Using the Abbott AxSYM Analyzer. 2000, J Clin Microbiol., 38(4):1476-1481.</p> <p>2. Gill SC, von Hippel PH. Calculation of protein extinction coefficients from amino acid sequence data. Anal Biochem. 1989 Nov 1;182(2):319-26.</p> |
| <b>Conjugation</b>    | Biotin                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |