# Viral CMV UL146/vCXC1 Antibody

Antigen Affinity-purified Polyclonal Goat IgG

Catalog Number: AF620

## DESCRIPTION

| | |
|---|---|
| **Species Reactivity** | Viral |
| **Specificity** | Detects viral CMV UL146/vCXC1 in direct ELISAs and Western blots. |
| **Source** | Polyclonal Goat IgG |
| **Purification** | Antigen Affinity-purified |
| **Immunogen** | *E. coli*-derived recombinant viral CMV UL146/vCXC1 |
| **Endotoxin Level** | <0.10 EU per 1 µg of the antibody by the LAL method. |
| **Formulation** | Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details.<br>*Small pack size (-SP) is supplied either lyophilized or as a 0.2 µm filtered solution in PBS. |

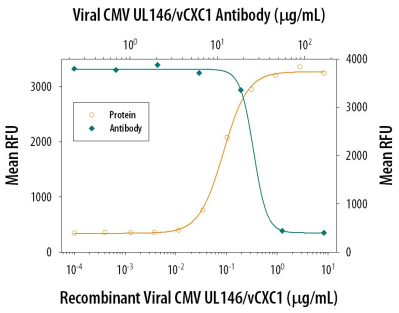
## APPLICATIONS

**Please Note:** *Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.*

| | Recommended Concentration | Sample |
|---|---|---|
| **Western Blot** | 0.1 µg/mL | Recombinant Viral CMV UL146/vCXC1 (Catalog # 620-CM) |
| **Neutralization** | Measured by its ability to neutralize CMV UL146/vCXC1-induced chemotaxis in the BaF3 mouse pro-B cell line transfected with human CXCR2. The Neutralization Dose ($ND_{50}$) is typically 10-30 µg/mL in the presence of 0.3 µg/mL Recombinant Viral CMV UL146/vCXC1. | |

## DATA

**Neutralization**




**Chemotaxis Induced by CMV UL146/vCXC1 and Neutralization by CMV UL146/vCXC1 Antibody.** Recombinant Viral CMV UL146/vCXC1 (Catalog # 620-CM) chemoattracts the BaF3 mouse pro-B cell line transfected with human CXCR2 in a dose-dependent manner (orange line). The amount of cells that migrated through to the lower chemotaxis chamber was measured by Resazurin (Catalog # AR002). Chemotaxis elicited by Recombinant Viral CMV UL146/vCXC1 (0.3 µg/mL) is neutralized (green line) by increasing concentrations of Goat Anti-Viral CMV UL146/vCXC1 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF620). The $ND_{50}$ is typically 10-30 µg/mL.

## PREPARATION AND STORAGE

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|---|---|
| **Reconstitution** | Reconstitute at 0.2 mg/mL in sterile PBS. |
| **Shipping** | The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.<br>*Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C |
| **Stability & Storage** | **Use a manual defrost freezer and avoid repeated freeze-thaw cycles.**<br>● 12 months from date of receipt, -20 to -70 °C as supplied.<br>● 1 month, 2 to 8 °C under sterile conditions after reconstitution.<br>● 6 months, -20 to -70 °C under sterile conditions after reconstitution. |



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## BACKGROUND

Cytomegalovirus (CMV), a member of the beta herpesvirus subfamily, typically causes subclinical or latent infections in the normal adult population. However, CMV can cause congenital disease during pregnancy and is a human opportunistic pathogen that affects immunocompromised individuals. The CMV genome has been shown to contain homologs of cellular immunomodulatory proteins, including US28 (a CC chemokine receptor) and a MHC class I homolog. Virulent CMV clinical isolates have also been shown to carry at least 19 genes, designated *UL133-UL151*, that are not found in laboratory strains that have lost virulence characteristics. Two of these genes, *UL146 and UL147,* exhibit sequence similarity to CXC chemokines.

The CMV *UL146* open-reading frame encodes a 117 amino acid residue precursor protein with a predicted 22 residues signal peptide that is cleaved to generate the mature protein. Recombinant UL146 has been shown to induce calcium mobilization, chemotaxis and degranulation of neutrophils.

**References:**

1. Dairaghi, D. *et al.* (1998) Sem. Virol. **8**:377.
2. Cha, T.A. *et al.* (1996) J. Virol.**70**:78.



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