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. *Small pack size (-SP) is supplied as a 0.2 µm filtered solution in PBS.

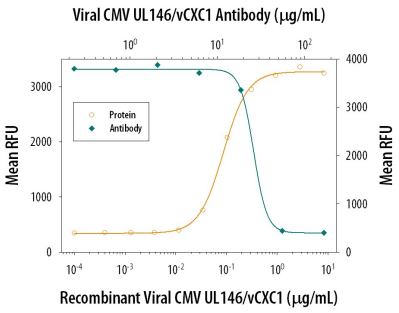
APPLICATIONS

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

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. *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.** ● 12 months from date of receipt, -20 to -70 °C as supplied. ● 1 month, 2 to 8 °C under sterile conditions after reconstitution. ● 6 months, -20 to -70 °C under sterile conditions after reconstitution.

bio-techne
bio-techne.com
Global info@bio-techne.com techsupport@bio-techne.com
North America TEL 800 343 7475 Europe | Middle East | Africa TEL +44 (0)1235 529449
China info.cn@bio-techne.com TEL +86 (21) 52380373
Rest of World bio-techne.com/find-us/distributors TEL +1 612 379 2956

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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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bio-techne.com
Global info@bio-techne.com techsupport@bio-techne.com
North America TEL 800 343 7475 **Europe | Middle East | Africa** TEL +44 (0)1235 529449
China info.cn@bio-techne.com TEL +86 (21) 52380373
Rest of World bio-techne.com/find-us/distributors TEL +1 612 379 2956