

#### DESCRIPTION

<b>Species Reactivity</b>	Viral
<b>Specificity</b>	Detects viral CCI in direct ELISAs and Western blots.
<b>Source</b>	Monoclonal Mouse IgG <sub>1</sub> Clone # 112811
<b>Purification</b>	Protein A or G purified from ascites
<b>Immunogen</b>	<i>S. frugiperda</i> insect ovarian cell line Sf 21-derived recombinant viral CCI
<b>Formulation</b>	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *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
<b>Western Blot</b>	1 µg/mL	Recombinant Viral CCI Fc Chimera (Catalog # 696-CC)

#### PREPARATION AND STORAGE

<b>Reconstitution</b>	Reconstitute at 0.5 mg/mL in sterile PBS.
<b>Shipping</b>	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
<b>Stability &amp; Storage</b>	<b>Use a manual defrost freezer and avoid repeated freeze-thaw cycles.</b> <ul style="list-style-type: none"> <li>● 12 months from date of receipt, -20 to -70 °C as supplied.</li> <li>● 1 month, 2 to 8 °C under sterile conditions after reconstitution.</li> <li>● 6 months, -20 to -70 °C under sterile conditions after reconstitution.</li> </ul>

#### BACKGROUND

The family of T1/35 kDa proteins are secreted, soluble proteins encoded by the '35K' virulence gene of many poxviruses. These proteins have been shown to bind CC-chemokines with high affinity and are now termed viral chemokine inhibitor (vCCI). Viral CCI from various poxviruses share multiple stretches of identical sequence motif and eight conserved cysteine residues. The vaccinia virus (strain Lister) vCCI cDNA encodes a 258 amino acid (aa) protein with a putative 17 amino acid signal peptide. Vaccinia virus (strain Lister) vCCI shows greater than 90% aa sequence identity with vCCI from other orthopoxviruses and approximately 40% aa sequence identity with the leporipoxvirus T-1 proteins. Recombinant vCCI has been shown to be a potent general inhibitor of CC-chemokine activity *in vitro* and blocks binding of CC chemokines to cell surface chemokine receptors. In *in vivo* studies using a virus mutant in which the gene encoding the CCI has been deleted, leukocyte infiltration into the virus-infected areas is increased, suggesting that CCI can modulate the influx of inflammatory cells into virus-infected tissues.

#### References:

1. Graham, K. *et al.* (1997) *Virology* **229**:12.
2. Smith, C. *et al.* (1997) *Virology* **236**:316.
3. Lalani, A. *et al.* (1998) *Virology* **250**:173.
4. Patel, A. (1990) *J. of General Virology* **71**:2013.