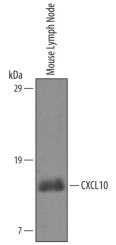
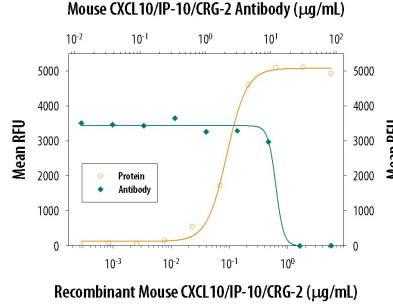
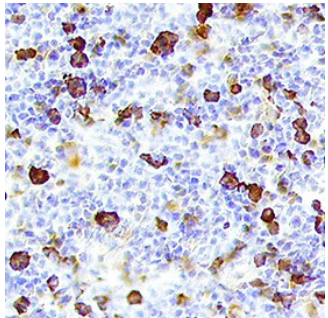


DESCRIPTION	
Species Reactivity	Mouse
Specificity	Detects mouse CXCL10/IP-10/CRG-2 in direct ELISAs and Western blots. In direct ELISAs, less than 10% cross-reactivity with recombinant human CXCL10 is observed.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	<i>E. coli</i> -derived recombinant mouse CXCL10/IP-10/CRG-2 Ile22-Pro98 Accession # P17515
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. <i>General Protocols</i> are available in the <i>Technical Information</i> section on our website.							
	<table border="1"> <thead> <tr> <th>Recommended Concentration</th> <th>Sample</th> </tr> </thead> <tbody> <tr> <td>1 µg/mL</td> <td>See Below</td> </tr> <tr> <td>5-15 µg/mL</td> <td>See Below</td> </tr> </tbody> </table>	Recommended Concentration	Sample	1 µg/mL	See Below	5-15 µg/mL	See Below
Recommended Concentration	Sample						
1 µg/mL	See Below						
5-15 µg/mL	See Below						
Western Blot	See Below						
Immunohistochemistry	See Below						
Neutralization	Measured by its ability to neutralize CXCL10/IP-10/CRG-2-induced chemotaxis in the BaF3 mouse pro-B cell line transfected with human CXCR3. The Neutralization Dose (ND ₅₀) is typically 5-25 µg/mL in the presence of 0.5 µg/mL Recombinant Mouse CXCL10/IP-10/CRG-2.						

DATA	
<p>Western Blot</p>  <p>Detection of Mouse CXCL10 by Western Blot. Western blot shows lysates of mouse lymph node tissue. PVDF membrane was probed with 1 µg/mL of Goat Anti-Mouse CXCL10/IP-10/CRG-2 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF-466-NA) followed by HRP-conjugated Anti-Goat IgG Secondary Antibody (Catalog # HAF019). A specific band was detected for CXCL10 at approximately 12 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 8.</p>	<p>Neutralization</p>  <p>Chemotaxis Induced by CXCL10/CRG-2 and Neutralization by Mouse CXCL10/CRG-2 Antibody. Recombinant Mouse CXCL10/CRG-2 (Catalog # 466-CR) chemoattracts the BaF3 mouse pro-B cell line transfected with human CXCR3 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 Mouse CXCL10/CRG-2 (0.5 µg/mL) is neutralized (green line) by increasing concentrations of Goat Anti-Mouse CXCL10/CRG-2 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF-466-NA). The ND₅₀ is typically 5-25 µg/mL.</p>
<p>Immunohistochemistry</p>  <p>CXCL10/IP-10/CRG-2 in Mouse Thymus. CXCL10/IP-10/CRG-2 was detected in immersion fixed frozen sections of mouse thymus using Goat Anti-Mouse CXCL10/IP-10/CRG-2 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF-466-NA) at 15 µg/mL overnight at 4 °C. Tissue was stained using the Anti-Goat HRP-DAB Cell & Tissue Staining Kit (brown; Catalog # CTS008) and counterstained with hematoxylin (blue). Specific staining was localized to lymphocytes. View our protocol for Chromogenic IHC Staining of Frozen Tissue Sections.</p>	

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. <ul style="list-style-type: none">● 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.

BACKGROUND

The gene for CRG-2, a mouse homolog of human IP-10, was originally identified as an immediate early gene induced in response to macrophage activation. It has since been shown that CRG-2 mRNA is induced by $\alpha/\beta/\gamma$ -interferons and by lipopolysaccharide in macrophages, astrocytes and microglia. Human IP-10 was also shown to be expressed in activated T-lymphocytes, splenocytes, keratinocytes, osteoblasts, astrocytes, and smooth muscle cells. Mouse CRG-2 cDNA encodes a 98 amino acid (aa) residue precursor protein with a 21 aa residue signal peptide that is cleaved to form the 77 aa residue secreted mature protein. Mature CRG-2 shares approximately 67% amino acid sequence identity with human IP-10. The amino acid sequence of CRG-2 identified the protein as a member of the chemokine α subfamily that lacks the ELR domain. CRG-2 has been shown to be a chemoattractant for activated T-lymphocytes. Recently, human IP-10 has also been reported to be a potent inhibitor of angiogenesis and to display a potent thymus-dependent anti-tumor effect. A chemokine receptor specific for IP-10 and MIG (CXCR3) has been cloned and shown to be highly expressed in IL-2-activated T-lymphocytes.

References:

1. Loetscher, M. *et al.* (1996) *J. Exp. Med.* **184**:963.
2. Vanguri, P. (1996) *J. Neuroimmunol.* **56**:35.
3. Sgadari, C. *et al.* (1996) *Blood* **87**:3877.