

**DESCRIPTION**

<b>Species Reactivity</b>	Mouse
<b>Specificity</b>	Detects mouse CXCL10/IP-10/CRG-2 in ELISAs and Western blots. In sandwich immunoassays, less than 0.5% cross-reactivity with recombinant human IP-10, recombinant mouse (rm) PF4, rmMIG, rmLIX, and rml-TAC is observed.
<b>Source</b>	Polyclonal Goat IgG
<b>Purification</b>	Antigen Affinity-purified
<b>Immunogen</b>	<i>E. coli</i> -derived recombinant mouse CXCL10/IP-10/CRG-2 (R&D Systems, Catalog # 466-CR) Ile22-Pro98 Accession # Q548V9
<b>Formulation</b>	Lyophilized from a 0.2 µm filtered solution in PBS with BSA as a carrier protein. See Certificate of Analysis for details.

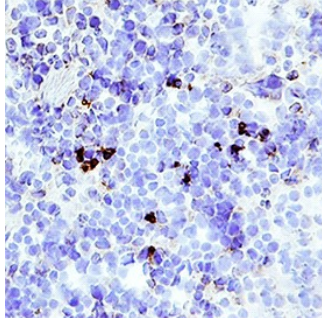
**APPLICATIONS**

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.

	<b>Recommended Concentration</b>	<b>Sample</b>
<b>Western Blot</b>	0.1 µg/mL	Recombinant Mouse CXCL10/IP-10/CRG-2 (Catalog # 466-CR)
<b>Immunohistochemistry</b>	5-15 µg/mL	See Below
<b>Mouse CXCL10/IP-10/CRG-2 Sandwich Immunoassay</b>		<b>Reagent</b>
<b>ELISA Capture</b>	2-8 µg/mL	Mouse CXCL10/IP-10/CRG-2 Antibody (Catalog # MAB466)
<b>ELISA Detection</b>	0.1-0.4 µg/mL	Mouse CXCL10/IP-10/CRG-2 Biotinylated Antibody (Catalog # BAF466)
<b>Standard</b>		Recombinant Mouse CXCL10/IP-10/CRG-2 (Catalog # 466-CR)

**DATA**

**Immunohistochemistry**



**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 Biotinylated Antigen Affinity-purified Polyclonal Antibody (Catalog # BAF466) 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.

**PREPARATION AND STORAGE**

<b>Reconstitution</b>	Reconstitute at 0.2 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.
<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 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 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  $\alpha$  subfamily that lacks the ELR domain. CRG-2 has been shown to be a chemoattractant for activated T-lymphocytes. 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.