

## DESCRIPTION

|                           |                                                                                                                                                                                                                                                                             |
|---------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Species Reactivity</b> | Mouse                                                                                                                                                                                                                                                                       |
| <b>Specificity</b>        | Detects mouse CXCL10/IP-10/CRG-2 in ELISAs and Western blots. In Western blots, this antibody does not cross-react with recombinant human (rh) CXCL1, 2, 3, 5, 6, 7, 9, 10, 11, 12/SDF-1α, 12/SDF-1β, 13, rmCXCL1, 2, 6, 9, 11, 12/SDF-1α, 13, rpCXCL8, rrCXCL1             |
| <b>Source</b>             | Monoclonal Rat IgG <sub>2A</sub> Clone # 134013                                                                                                                                                                                                                             |
| <b>Purification</b>       | Protein A or G purified from hybridoma culture supernatant                                                                                                                                                                                                                  |
| <b>Immunogen</b>          | <i>E. coli</i> -derived recombinant mouse CXCL10/IP-10/CRG-2<br>Ile22-Pro98<br>Accession # P17515                                                                                                                                                                           |
| <b>Conjugate</b>          | Alexa Fluor 488<br>Excitation Wavelength: 488 nm<br>Emission Wavelength: 515-545 nm                                                                                                                                                                                         |
| <b>Formulation</b>        | Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide<br><br>*Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions. |

## 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>ELISA Capture (Matched Antibody Pair)</b>   | Optimal dilution of this antibody should be experimentally determined. |
| <b>ELISA Detection (Matched Antibody Pair)</b> | Optimal dilution of this antibody should be experimentally determined. |
| <b>Neutralization</b>                          | Optimal dilution of this antibody should be experimentally determined. |
| <b>Western Blot</b>                            | Optimal dilution of this antibody should be experimentally determined. |

## PREPARATION AND STORAGE

|                                |                                                                                                                   |
|--------------------------------|-------------------------------------------------------------------------------------------------------------------|
| <b>Shipping</b>                | The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below. |
| <b>Stability &amp; Storage</b> | Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied                          |

## 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 α/β/γ-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.

## PRODUCT SPECIFIC NOTICES

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