

DESCRIPTION

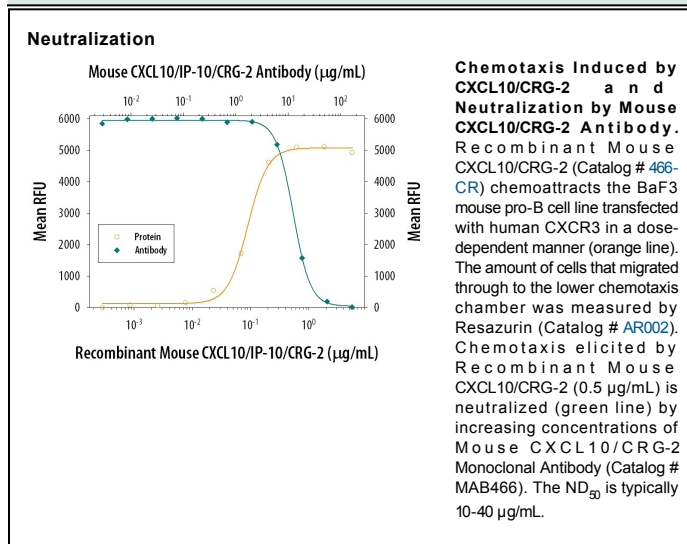
Species Reactivity	Mouse
Specificity	Detects mouse CXCL10/IP-10/CRG-2 in ELISAs and Western blots. In Western blots, this antibody does not cross-react with recombinant human (rh) CXCL1, 2, 3, 5, 6, 7, 9, 10, 11, 12/SDF-1 α , 12/SDF-1 β , 13, rCXCL1, 2, 6, 9, 11, 12/SDF-1 α , 13, rCXCL8, rCXCL1, 3/CINC-2 α , 3/CINC-2 β
Source	Monoclonal Rat IgG _{2A} Clone # 134013
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>E. coli</i> -derived recombinant mouse CXCL10/IP-10/CRG-2 Ile22-Pro98 Accession # P17515
Endotoxin Level	<0.10 EU per 1 μ g of the antibody by the LAL method.
Formulation	Lyophilized from a 0.2 μ m filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied as a 0.2 μ m 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	1 μ g/mL	Recombinant Mouse CXCL10/IP-10/CRG-2 (Catalog # 466-CR)
Mouse CXCL10/IP-10/CRG-2 Sandwich Immunoassay		Reagent
ELISA Capture	2-8 μ g/mL	Mouse CXCL10/IP-10/CRG-2 Antibody (Catalog # MAB466)
ELISA Detection Standard	0.1-0.4 μ g/mL	Mouse CXCL10/IP-10/CRG-2 Biotinylated Antibody (Catalog # BAF466) Recombinant Mouse CXCL10/IP-10/CRG-2 (Catalog # 466-CR)
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 10-40 μ g/mL in the presence of 0.5 μ g/mL Recombinant Mouse CXCL10/IP-10/CRG-2.

DATA



PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.5 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.