

Cotton Rat CXCL10/IP-10/CRG-2 Biotinylated Antibody

Antigen Affinity-purified Polyclonal Goat IgG Catalog Number: BAF1117

DESCRIPTION	
Species Reactivity	Cotton Rat
Specificity	Detects cotton rat CXCL10/IP-10/CRG-2 in Western blots. In this format, less than 5% cross-reactivity with recombinant human IP-10 and recombinant mouse CRG-2 is observed.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	E. coli-derived recombinant cotton rat CXCL10/IP-10/CRG-2 Thr27-Val94 Accession # AAL16935
Formulation	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 diluti	ions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.
	Recommended Sample Concentration
Western Blot	0.1 μg/mL Recombinant Cotton Rat CXCL10/IP-10/CRG-2 (Catalog # 1117-IP)
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.
Stability & Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 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

IP-10, also named mob-1 in rat and crg-2 in mouse, is a member of the non-ELR-motif containing CXC chemokine subfamily and has been designated CXCL10. It is induced in various cell types (including keratinocytes, endothelial cells, fibroblasts, smooth muscle cells, monocytes/macrophages, astrocytes, neutrophils, hepatocytes, T cells, epithelial cells and mesothelial cells) in response to stimulation by type I and/or type II interferon as well as by LPS. IP-10 has been shown to chemoattract activated CD4+ and CD8+ T cells, activated NK cells and smooth muscle cells. It also induces the adhesion of activated T cells to VCAM and ICAM. In addition, IP-10 has been reported to antagonize the angiogenic activity of FGF. IP-10 binds to and activates CXCR3, the chemokine receptor that is shared by MIG/CXCL9 and I-TAC/CXCL11, two additional non-ELR CXC chemokines that are induced by interferon. Cotton rat IP-10 cDNA encodes a 94 amino acid (aa) residue precursor protein with a putative 21 aa signal peptide and a 73 aa mature protein with one potential N-linked glycosylation site. Mature cotton rat IP-10 shares 66%, 64%, and 66% aa sequence identity with rat, mouse and human IP10, respectively (1-7).

References:

- 1. Vanguri, P. and J.M. Farber (1990) J. Biol. Chem. 265:15049.
- 2. Liang, P. et al. (1994) Proc. Natl. Acad. Sci. USA. 91:12515.
- 3. Proost, P. et al. (1993) J. Immunol. 150:1000.
- 4. Blanco, J.C. et al. (2001) GenBank Accession # AAL16959.
- 5. Neville, L.F. (1997) Prog. Growth Factor Res. 8:207.
- 6. Belperio, J.A. et al. (2000) J. Leukoc. Biol. 68:1.
- 7. Soejima, K. and B.J. Rollins (2001) J. Immunol. 167:6576.



