

DESCRIPTION

Species Reactivity	Cotton Rat
Specificity	Detects cotton rat CXCL10/IP-10/CRG-2 in direct ELISAs and Western blots. In direct ELISAs, less than 1% cross-reactivity with recombinant mouse CXCL-16 is observed. In Western blots, less than 5% cross-reactivity with recombinant human CXCL10 and recombinant mouse CRG-2 is observed.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	<i>E. coli</i> -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 Trehalose.

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	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	<p>Use a manual defrost freezer and avoid repeated freeze-thaw cycles.</p> <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

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:

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