

Mouse CXCL1/GRO α /KC/CINC-1 Alexa Fluor® 405-conjugated Antibody

Monoclonal Rabbit IgG Clone # 1174A

Catalog Number: IC4532V

100 μ g

DESCRIPTION

Species Reactivity	Mouse
Specificity	Detects mouse CXCL1/GRO α /KC/CINC-1 in direct ELISAs.
Source	Monoclonal Rabbit IgG Clone # 1174A
Purification	Protein A or G purified from cell culture supernatant
Immunogen	<i>E. coli</i> -derived recombinant mouse CXCL1/GRO α /KC/CINC-1 Asn29-Lys96 Accession # P12850
Conjugate	Alexa Fluor 405 Excitation Wavelength: 405 nm Emission Wavelength: 421 nm
Formulation	Supplied 0.2 mg/mL in a saline solution containing BSA and Sodium Azide. See Certificate of Analysis for details. *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.

	Recommended Concentration	Sample
Intracellular Staining by Flow Cytometry	0.25-1 μ g/10 ⁶ cells	Mouse splenocytes treated with LPS and Brefeldin A were fixed and permeabilized with FlowX FoxP3 Fixation & Permeabilization Buffer Kit (Catalog # FC012)

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Protect from light. Do not freeze. <ul style="list-style-type: none"> 12 months from date of receipt, 2 to 8 °C as supplied.

BACKGROUND

KC, a member of the alpha (CXC) chemokine subfamily, was initially identified as an immediate early gene induced in mouse fibroblasts by platelet-derived growth factor. KC cDNA encodes a 96 amino acid (aa) residue precursor protein with a predicted secretory signal peptide that is removed to yield the mature protein. The protein sequence of mouse KC shows approximately 63% identity to that of mouse MIP-2. KC is also approximately 60% identical to the human GROs. It has been suggested that mouse KC and MIP-2 are the orthologs of the human GROs and rat CINC α s. In addition to mouse fibroblasts, KC is expressed in macrophages and endothelial cells. Mouse KC is a potent neutrophil attractant and activator. The functional receptor for KC has been identified as CXCR2. Based on the pattern of KC expression in a number of inflammatory disease models, KC appears to have an important role in inflammation. KC was found to be involved in monocyte arrest on atherosclerotic endothelium and may also play a pathophysiological role in Alzheimer's disease. Many chemokines are substrates for selective proteolysis at the amino-terminus by various proteases including dipeptidyl peptidase IV or matrix metalloproteases, resulting in truncated chemokine isoforms with different (both enhanced or reduced) bioactivities. The naturally occurring 68 aa N-terminal truncated isoform of mouse KC is reported to be a more potent synergistic growth stimulant for CFU-GM.

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