Rat CXCL1/GROα/KC/CINC-1 Alexa Fluor® 532-conjugated Antibody

Monoclonal Mouse IgG_{2A} Clone # 251021

Catalog Number: FAB515X

100 µg

DESCRIPTION

Species Reactivity	Rat
Specificity	Detects rat CXCL1/GROα/KC/CINC-1 in direct ELISAs and Western blots. In Western blots, 100% cross-reactivity with recombinant human (rh) GROα, rhGROβ, rhGROγ, and recombinant mouse KC is observed. No cross-reactivity with recombinant rat (rr) CINC2a,
Source	Monoclonal Mouse IgG_{2A} Clone # 251021
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	*E. coli*-derived recombinant rat CXCL1/GROα/KC/CINC-1 Ala25-Lys96 Accession # P14095
Conjugate	Alexa Fluor 532 Excitation Wavelength: 534 nm Emission Wavelength: 553 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide *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.*

Neutralization	Optimal dilution of this antibody should be experimentally determined.
Western Blot	Optimal dilution of this antibody should be experimentally determined.

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. 12 months from date of receipt, 2 to 8 °C as supplied

BACKGROUND

Cytokine-induced neutrophil chemoattractant 1 (CINC-1) was originally purified from media conditioned by IL-1β stimulated rat kidney epithelioid cells (NRK-52E). On the basis of its protein and DNA sequences, CINC-1 is a member of the alpha (CXC) subfamily of chemokines, designated CXCL1. Three additional rat CXC chemokines (CINC-2α, CINC-2β, CINC-3/MIP-2), sharing approximately 63-67% amino acid sequence identity with CINC-1, have been identified. The protein sequence of rat CINC-1 is also 68%, 71%, and 69% identical to that of human GRO-α, GRO-β, and GRO-γ, respectively. Based on their sequence homology, it has been suggested that CINCs are the rat counterpart of human GROs. CINC-1 is also the counterpart of mouse KC. Rat CINC-1 cDNA encodes a 96 amino acid residue precursor protein from which the amino-terminal 24 amino acid residues are cleaved to generate the mature CINC-1. Similar to other alpha chemokines, rat CINCs are potent neutrophil attractants and activators and have been shown to play an important role in the infiltration of neutrophils into inflammatory sites in rats.

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