

DESCRIPTION

Species Reactivity	Rat
Specificity	Detects rat CXCL2/GRO β /MIP-2/CINC-3 in ELISAs and Western blots. In sandwich ELISAs, less than 0.5% cross-reactivity with recombinant rat (rr) CXCL3 and less than 0.1% cross-reactivity with rrCXCL1, rrCINC-2 α , recombinant mouse (rm) CXCL9 or rmCXCL2 is ob
Source	Monoclonal Mouse IgG _{2B} Clone # 123802
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>E. coli</i> -derived recombinant rat CXCL2/GRO β /MIP-2/CINC-3 Ser32-Asn100 Accession # P30348
Conjugate	Alexa Fluor 405 Excitation Wavelength: 405 nm Emission Wavelength: 421 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.

ELISA Capture (Matched Antibody Pair)	Optimal dilution of this antibody should be experimentally determined.
ELISA Detection (Matched Antibody Pair)	Optimal dilution of this antibody should be experimentally determined.
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 3 (CINC-3) has been found to be expressed by cytokine-stimulated rat alveolar macrophages and fibroblasts. Based on its protein and DNA sequences, CINC-3 (also known as rat MIP-2, GRO β and CXCL2) is a member of the alpha (CXC) subfamily of chemokines.

CINC-3 cDNA encodes a 100 amino acid (aa) residue precursor protein with a 31 aa signal peptide that is cleaved to yield a 69 aa mature secreted protein. The protein sequence of rat CINC-3 shares approximately 88% identity with murine MIP-2. Characteristic of ELR containing CXC chemokines, CINC-3 is known to be a potent chemotactic factor for rat neutrophils *in vitro* and *in vivo*. On the basis of cross-desensitization results of the various CINC proteins, it has been postulated that rat neutrophils have at least two classes of CINC receptors: a class of CINC-3 specific receptors as well as a second common receptor shared by all CINC3s.

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