

## DESCRIPTION

|                           |                                                                                                                                                                                                                                                                             |
|---------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Species Reactivity</b> | Mouse                                                                                                                                                                                                                                                                       |
| <b>Specificity</b>        | Detects mouse CXCL14 in direct ELISAs and Western blots. In direct ELISAs, this antibody shows 100% cross-reactivity with recombinant human (rh) CXCL14 and no cross-reactivity with rhCXCL1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 16, rmCXCL4, 7, 1                     |
| <b>Source</b>             | Monoclonal Rat IgG <sub>2B</sub> Clone # 135633                                                                                                                                                                                                                             |
| <b>Purification</b>       | Protein A or G purified from hybridoma culture supernatant                                                                                                                                                                                                                  |
| <b>Immunogen</b>          | <i>E. coli</i> -derived recombinant mouse CXCL14/BRAK<br>Ser23-Glu99<br>Accession # NP_062514                                                                                                                                                                               |
| <b>Conjugate</b>          | Alexa Fluor 594<br>Excitation Wavelength: 590 nm<br>Emission Wavelength: 617 nm                                                                                                                                                                                             |
| <b>Formulation</b>        | Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide<br><br>*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.

**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

CXCL14/BRAK, also named MIP-2 gamma, KEC (kidney-expressed chemokine), and BMAC (B cell and monocyte-activating chemokine), is a member of the CXC chemokine superfamily (1 - 5). The deduced 99 amino acid (aa) residue precursor has a 22 aa putative signal peptide that is cleaved to produce the 77 aa mature protein. Mature human and mouse CXCL14 differ by only 2 residues. Mouse CXCL14 shares approximately 30% aa sequence identity with mouse MIP-2. Unlike MIP-2, CXCL14 lacks the ELR domain preceding the CXC motif. CXCL14 transcripts are constitutively expressed at high levels in the basal layer of epidermal keratinocytes and dermal fibroblasts of skin tissues as well as lamina propria cells in normal intestinal tissues. CXCL14 has been shown to be a highly selective chemoattractant for monocytes that have been treated with prostaglandin E<sub>2</sub> or forskolin, agents that activate adenylate cyclase. CXCL14 has been proposed to be important in regulating the trafficking of macrophage precursor to regions in skin and mucosal tissues that support their development. Consistent with this hypothesis, macrophages were frequently found to co-localize with CXCL14-producing cells in the dermis and lamina propria.

## PRODUCT SPECIFIC NOTICES

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