

#### DESCRIPTION

|                           |                                                                                                                                                                                                                                                                             |
|---------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Species Reactivity</b> | Mouse                                                                                                                                                                                                                                                                       |
| <b>Specificity</b>        | Detects mouse CXCL11/I-TAC in direct ELISAs and Western blots. In direct ELISAs, no cross-reactivity with recombinant mouse CXCL1, 2, 6, 9, 10, CXCL12/SDF-1α, 13, 14, recombinant human CXCL1, 2, 3, 5, 6, 7, 8, 9, 10, 11, CXCL12/SDF-1α, CXCL12/SDF-1β, 13, 1            |
| <b>Source</b>             | Monoclonal Rat IgG <sub>2A</sub> Clone # 131327                                                                                                                                                                                                                             |
| <b>Purification</b>       | Protein A or G purified from hybridoma culture supernatant                                                                                                                                                                                                                  |
| <b>Immunogen</b>          | <i>E. coli</i> -derived recombinant mouse CXCL11/I-TAC<br>Phe22-Met100<br>Accession # Q9JHH5                                                                                                                                                                                |
| <b>Conjugate</b>          | Alexa Fluor 488<br>Excitation Wavelength: 488 nm<br>Emission Wavelength: 515-545 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.

|                       |                                                                        |
|-----------------------|------------------------------------------------------------------------|
| <b>Neutralization</b> | Optimal dilution of this antibody should be experimentally determined. |
| <b>Western Blot</b>   | Optimal dilution of this antibody should be experimentally determined. |

#### PREPARATION AND STORAGE

|                                |                                                                                                                   |
|--------------------------------|-------------------------------------------------------------------------------------------------------------------|
| <b>Shipping</b>                | The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below. |
| <b>Stability &amp; Storage</b> | Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied                          |

#### BACKGROUND

CXCL11 (also known as I-TAC, SCYB9B, H174, IP-9, and β-R1) is a member within the non-ELR CXC chemokine subgroup and has been designated CXCL11. CXCL11, together with MIG and IP-10, constitute a subset of chemokines that are ligands for CXCR3, a chemokine receptor that is primarily expressed on activated Th1 cells and NK cells. The three chemokines were also reported to act as antagonists for CCR3, a chemokine receptor that is preferentially expressed on activated Th2 cells. Mouse CXCL11 cDNA encodes a 100 amino acid (aa) precursor protein with a putative 21 aa signal peptide that is cleaved to yield a 79 aa mature protein. Mature mouse and human CXCL11 share 71% aa sequence identity. Mouse CXCL11 also shares 36% and 29% aa sequence identity with mouse IP-10 (CRG-2) and mouse MIG, respectively. The gene for mouse CXCL11 has been mapped to chromosome 5, in close proximity to the IP-10 and MIG genes. Mouse CXCL11 is induced in multiple tissues during endoxemia, with the greatest expression in lung, heart, small intestine, and kidney. The endotoxemia-induced mouse CXCL11 expression is strongly attenuated by treatment with glucocorticoid.

#### PRODUCT SPECIFIC NOTICES

This product is provided under an agreement between Life Technologies Corporation and R&D Systems, Inc, and the manufacture, use, sale or import of this product is subject to one or more US patents and corresponding non-US equivalents, owned by Life Technologies Corporation and its affiliates. The purchase of this product conveys to the buyer the non-transferable right to use the purchased amount of the product and components of the product only in research conducted by the buyer (whether the buyer is an academic or for-profit entity). The sale of this product is expressly conditioned on the buyer not using the product or its components (1) in manufacturing; (2) to provide a service, information, or data to an unaffiliated third party for payment; (3) for therapeutic, diagnostic or prophylactic purposes; (4) to resell, sell, or otherwise transfer this product or its components to any third party, or for any other commercial purpose. Life Technologies Corporation will not assert a claim against the buyer of the infringement of the above patents based on the manufacture, use or sale of a commercial product developed in research by the buyer in which this product or its components was employed, provided that neither this product nor any of its components was used in the manufacture of such product. For information on purchasing a license to this product for purposes other than research, contact Life Technologies Corporation, Cell Analysis Business Unit, Business Development, 29851 Willow Creek Road, Eugene, OR 97402, Tel: (541) 465-8300. Fax: (541) 335-0354.