

#### DESCRIPTION

|                           |   |
|---------------------------|---|
| <b>Species Reactivity</b> | Mouse   |
| <b>Specificity</b>        | Detects mouse IL-16 in direct ELISAs and Western blots. Shows approximately 50% cross-reactivity with recombinant human (rh) IL-16 and no cross-reactivity with rmC-10, rhI-309, rhHCC-4, or rhHCC-1.         |
| <b>Source</b>             | Monoclonal Rat IgG <sub>2B</sub> Clone # 228109   |
| <b>Purification</b>       | Protein A or G purified from hybridoma culture supernatant  |
| <b>Immunogen</b>          | Mouse myeloma cell line NS0-derived recombinant mouse IL-16<br>Ser1205-Ser1322<br>Accession # O54824  |
| <b>Formulation</b>        | Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details.<br>*Small pack size (-SP) is supplied either lyophilized or as a 0.2 µm filtered solution in PBS. |

#### 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>Recommended Concentration</b> | <b>Sample</b>           |
|---------------------|----------------------------------|-------------------------|
| <b>Western Blot</b> | 1 µg/mL                          | Recombinant Mouse IL-16 |

#### PREPARATION AND STORAGE

|                                |  |
|--------------------------------|--|
| <b>Reconstitution</b>          | Reconstitute at 0.5 mg/mL in sterile PBS.  |
| <b>Shipping</b>                | The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.<br>*Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C   |
| <b>Stability &amp; Storage</b> | <b>Use a manual defrost freezer and avoid repeated freeze-thaw cycles.</b> <ul style="list-style-type: none"> <li>• 12 months from date of receipt, -20 to -70 °C as supplied.</li> <li>• 1 month, 2 to 8 °C under sterile conditions after reconstitution.</li> <li>• 6 months, -20 to -70 °C under sterile conditions after reconstitution.</li> </ul> |

#### BACKGROUND

Interleukin 16 (IL-16), also known as lymphocyte chemoattractant factor (LCF), refers to the C-terminal peptide of pro-IL-16 isoform 1, which is a nuclear and cytoplasmic PDZ-containing protein. The C-terminus of pro-IL-16 is cleaved by Caspase-3, resulting in the release of secreted IL-16. Mature IL-16 has been shown to bind the cell surface receptor CD4 and functions as an immunomodulatory cytokine.