

## DESCRIPTION

|                           |  |
|---------------------------|--|
| <b>Species Reactivity</b> | Mouse  |
| <b>Specificity</b>        | Detects mouse TLR11 in direct ELISAs.  |
| <b>Source</b>             | Monoclonal Rat IgG <sub>2B</sub> Clone # 786404  |
| <b>Purification</b>       | Protein A or G purified from hybridoma culture supernatant   |
| <b>Immunogen</b>          | <i>E. coli</i> -derived recombinant mouse TLR11<br>Thr209-Gln325<br>Accession # Q6R5P0   |
| <b>Conjugate</b>          | Alexa Fluor 594<br>Excitation Wavelength: 590 nm<br>Emission Wavelength: 617 nm  |
| <b>Formulation</b>        | Supplied 0.2 mg/mL in a saline solution containing BSA and Sodium Azide. See Certificate of Analysis for details.<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.

|   | Recommended Concentration       | Sample   |
|---|---------------------------------|--|
| <b>Intracellular Staining by Flow Cytometry</b> | 0.25-1 µg/10 <sup>6</sup> cells | RAW 264.7 mouse monocyte/macrophage cell line fixed with paraformaldehyde and permeabilized with saponin |

## 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> | <b>Protect from light. Do not freeze.</b> <ul style="list-style-type: none"> <li>12 months from date of receipt, 2 to 8 °C as supplied.</li> </ul> |

## BACKGROUND

TLR11 is a type I transmembrane receptor of the Toll-like receptor family that is primarily expressed in epithelial cells, but also in dendritic cells and macrophages. The 926 amino acid (aa) mouse TLR11 transcript encodes a 30 aa signal sequence, a 691 aa extracellular domain with 10 leucine-rich repeats and 9 potential N-glycosylation sites, a 21 aa transmembrane domain, and a 184 aa cytoplasmic domain with a TIR domain. Within the region used as an immunogen, mouse and rat TLR11 share 86% aa sequence identity. Human TLR11 is a pseudogene that is not expressed. TLR11 resides in the endoplasmic reticulum (ER), interacts with the multispan ER protein UNC93B1, recognizes profilin-like proteins on *Toxoplasma gondii* and other intracellular parasites, and activates dendritic cell IL-12 production.

## PRODUCT SPECIFIC NOTICES

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