**DESCRIPTION**

Species Reactivity: Mouse

Specificity: Detects mouse TLR4 in direct ELISAs. In direct ELISAs, does not cross-react with recombinant mouse TLR1, 2, 3, 6, or recombinant human TLR4.

Source: Monoclonal Rat IgG2A Clone # 267518

Purification: Protein A or G purified from hybridoma culture supernatant

Immunogen: Mouse myeloma cell line NS0-derived recombinant mouse TLR4 Asn26-Lys629 Accession # Q9QUK6

Formulation: Lyophilized from a 0.2 μm filtered solution in PBS with Trehalose. See Certificate of Analysis for details.

*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.

<table>
<thead>
<tr>
<th>Sample</th>
<th>Recommended Concentration</th>
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<tbody>
<tr>
<td>Flow Cytometry</td>
<td>RAW 264.7 mouse monocyte/macrophage cell line treated with LPS, fixed with paraformaldehyde and permeabilized with saponin</td>
</tr>
<tr>
<td>Immunocytochemistry</td>
<td>Ready to be labeled using established conjugation methods. No BSA or other carrier proteins that could interfere with conjugation.</td>
</tr>
</tbody>
</table>

**DATA**

Immunocytochemistry

TLR4 in RAW 264.7 Mouse Monocyte/Macrophage Cell Line. TLR4 was detected in immersion fixed RAW 264.7 mouse monocyte/macrophage cell line using Rat Anti-Mouse TLR4 Monoclonal Antibody (Catalog # MAB2759) at 10 μg/mL for 3 hours at room temperature. Cells were stained using the NorthernLights™ 557-conjugated Anti-Rat IgG Secondary Antibody (red; Catalog # NL013) and counterstained with DAPI (blue). Specific staining was localized to the cell surface. View our protocol for Fluorescent ICC Staining of Cells on Coverslips.

**PREPARATION AND STORAGE**

Reconstitution: Reconstitute at 0.5 mg/mL in sterile PBS.

Shipping: The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

Stability & Storage: Use a manual defrost freezer and avoid repeated freeze-thaw cycles.

- 12 months from date of receipt, -20 to -70 °C as supplied.
- 1 month, 2 to 8 °C under sterile conditions after reconstitution.
- 6 months, -20 to -70 °C under sterile conditions after reconstitution.

**BACKGROUND**

TLR4 belongs to the IL-1 receptor/Toll-like receptor superfamily. It is expressed in placenta and peripheral blood leukocytes. TLR4 is the pattern recognition receptor for LPS.