

DESCRIPTION

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| Species Reactivity | Mouse |
| Specificity | Detects mouse TLR11 in direct ELISAs. |
| Source | Monoclonal Rat IgG _{2B} Clone # 786404 |
| Purification | Protein A or G purified from hybridoma culture supernatant |
| Immunogen | <i>E. coli</i> -derived recombinant mouse TLR11 Thr209-Gln325 Accession # Q6R5P0 |
| Conjugate | Alexa Fluor 350 Excitation Wavelength: 346 nm Emission Wavelength: 442 nm |
| Formulation | Supplied 0.2 mg/mL in a saline solution containing BSA and Sodium Azide. See Certificate of Analysis for details. *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 |
|---|---------------------------------|--|
| Intracellular Staining by Flow Cytometry | 0.25-1 µg/10 ⁶ cells | RAW 264.7 mouse monocyte/macrophage cell line fixed with paraformaldehyde and permeabilized with saponin |

PREPARATION AND STORAGE

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| 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. <ul style="list-style-type: none"> 12 months from date of receipt, 2 to 8 °C as supplied. |

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.

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