

# **Mouse TLR11 PE-conjugated Antibody**

Monoclonal Rat IgG<sub>2B</sub> Clone # 786404

Catalog Number: IC7640P

100 TESTS

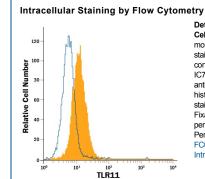
| DESCRIPTION        |   |  |  |
|--------------------|---|--|--|
| Species Reactivity | Mouse   |  |  |
| Specificity        | Detects mouse TLR11 in direct ELISAs.   |  |  |
| Source             | Monoclonal Rat IgG <sub>2B</sub> Clone # 786404   |  |  |
| Purification       | Protein A or G purified from hybridoma culture supernatant  |  |  |
| Immunogen          | E. coli-derived recombinant mouse TLR11 Thr209-Gln325 Accession # Q6R5P0  |  |  |
| Conjugate          | Phycoerythrin<br>Excitation Wavelength: 488 nm<br>Emission Wavelength: 565-605 nm   |  |  |
| Formulation        | Supplied 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<br>Concentration | Sample    |  |
|--|------------------------------|-----------|--|
| Intracellular Staining by Flow Cytometry | 10 μL/10 <sup>6</sup> cells  | See Below |  |

## DATA



Detection of TLR11 in RAW 264.7 Mouse Cell Line by Flow Cytometry. RAW 264.7 mouse monocyte/macrophage cell line was stained with Rat Anti-Mouse TLR11 PE-conjugated Monoclonal Antibody (Catalog # IC7640P, filled histogram) or isotype control antibody (Catalog # IC013P, open histogram). To facilitate intracellular staining, cells were fixed with Flow Cytometry Fixation Buffer (Catalog # FC004) and permeabilized with Flow Cytometry Permeabilization/Wash Buffer I (Catalog # FC005). View our protocol for Staining Intracellular Molecules.

#### PREPARATION AND STORAGE

**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.

• 12 months from date of receipt, 2 to 8 °C as supplied.

## BACKGROUND

TLR11 is a 110-120 kDa type I transmembrane glycoprotein that belongs to the Toll-like receptor family of proteins that is primarily expressed in intestinal and bladder epithelial cells, dendritic cells, macrophages, astrocytes, neurons and microglia. The 926 amino acid (aa) mouse TLR11 transcript encodes a 30 aa signal sequence, a 691 aa extracellular domain with 10 leucine-rich repeats, a 21 aa transmembrane (TM) domain, and a 184 aa cytoplasmic region 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) where it heterodimerizes with TLR12, and interacts with the 12-TM multispan ER protein UNC93B1, that serves as chaperone and co-factor for TLR11 activity. The receptor recognizes flagelin and profilin from Toxoplasma gondii, plus components of E.coli, S.typhimurium, and promotes IL-12 production by dendritic cells.

Rev. 11/30/2015 Page 1 of 1

