

DESCRIPTION

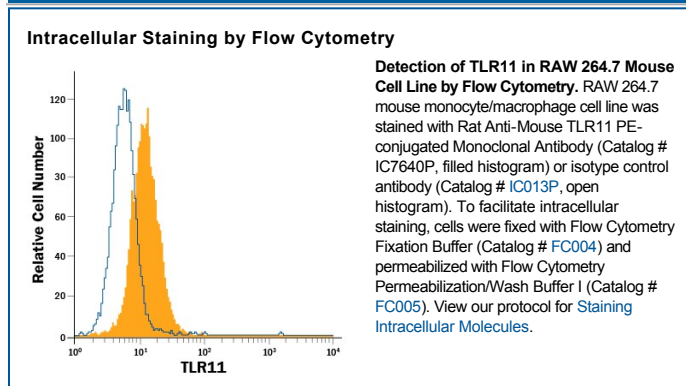
Species Reactivity	Mouse
Specificity	Detects mouse TLR11 in direct ELISAs.
Source	Monoclonal Rat IgG _{2B} Clone # 786404
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>E. coli</i> -derived recombinant mouse TLR11 Thr209-Gln325 Accession # Q6R5P0
Conjugate	Phycoerythrin Excitation Wavelength: 488 nm 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 Concentration	Sample
Intracellular Staining by Flow Cytometry	10 μ L/10 ⁶ cells	See Below

DATA



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. <ul style="list-style-type: none"> 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.