Mouse TLR11 Antibody

Monoclonal Rat IgG_{2B} Clone # 786404

Catalog Number: MAB7640

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	*E. coli*-derived recombinant mouse TLR11 Thr209-Gln325 Accession # Q6R5P0
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.

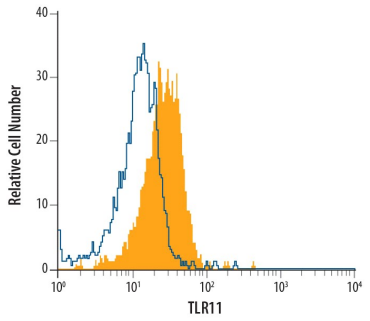
APPLICATIONS

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.*

	Recommended Concentration	Sample
Intracellular Staining by Flow Cytometry	2.5 µg/10^6 cells	See Below
CyTOF-ready	Ready to be labeled using established conjugation methods. No BSA or other carrier proteins that could interfere with conjugation.	

DATA

Intracellular Staining by Flow Cytometry



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 Monoclonal Antibody (Catalog # MAB7640, filled histogram) or isotype control antibody (Catalog # MAB0061, open histogram), followed by Allophycocyanin-conjugated Anti-Rat IgG Secondary Antibody (Catalog # F0113). To facilitate intracellular staining, cells were fixed with paraformaldehyde and permeabilized with saponin.

PREPARATION AND STORAGE

Reconstitution	Sterile PBS to a final concentration of 0.5 mg/mL.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
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

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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