

# TLR2

**T**oll-like receptor 2 (TLR2) is a receptor in the mammalian Toll family of leucine-rich proteins currently counting six published members (TLR1-6). The Toll proteins are important in the *Drosophila* immune system, and a role for TLRs in mammalian innate immunity responses is emerging. TLR2 is proposed to be a receptor for many microbial products and has so far been shown to signal the presence of peptidoglycan, lipoteichoic acid, lipoarabinomannan, lipoproteins

and lipopeptides, and zymosan as well as many whole Gram-positive bacteria, mycobacteria, spirochetes, and mycoplasmas. Mostly in vitro transfection studies have been used to examine the natural ligands for TLR2. With the emergence of blocking monoclonal antibodies (mAbs) to TLRs, a more accurate picture of the importance of the various TLRs in response to different microbial products can be elucidated.

## Anti-Human Toll-like Receptor 2 (TLR2) Clone TL2.1

### Research Applications

Flow Cytometry:	recommended
Immunoprecipitation:	recommended
Immunohistochemistry:	recommended
Functional Studies:	recommended

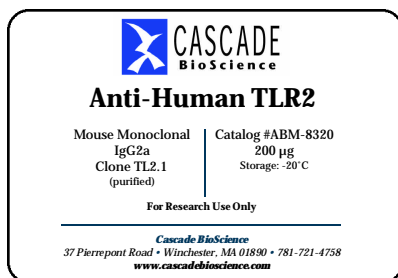
FITC-conjugated derivative (#ABM-8321) also available - please inquire

### Product Description

Host / Ig Type:	mouse monoclonal IgG2a, clone TL2.1
Purification:	protein G chromatography
Immunogen:	CHO cells transfected with human Toll-like Receptor 2
Reactivity:	human
Liquid Carrier:	PBS
Storage:	-20°C
Stability:	1 year

### Production Control Information

<b>Catalog Number:</b>	ABM-8320
<b>Mass:</b>	200 µg
<b>Label Sample:</b>	



### Pricing

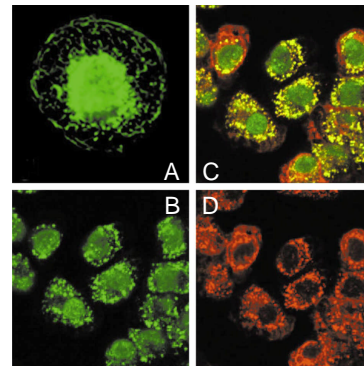
200 µg / \$295



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## LOT SPECIFICATION

### Quality Control Analyses

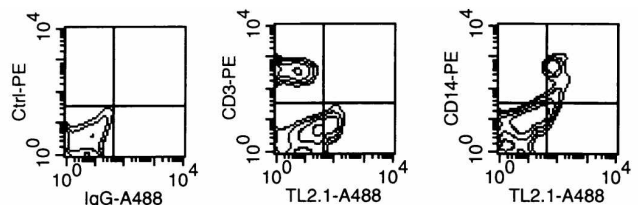
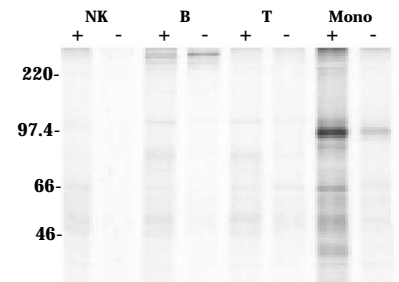


#### Immunofluorescence

Confocal images of TLR2 expression in monocyte-derived macrophages. Day 4 macrophages stained with anti-CD14 18D11-PE (D) and anti-TLR2 TL2.1-A488 (B) mAbs. Images are overlaid in C. (A) Close-up on a day-7 macrophage with pronounced nuclear TLR2 staining (TL2.1-A488).

#### Immunoprecipitation:

IP of TLR2 from human monocytes and T-, B-, and NK cells. 35 S-labeled lysates from purified monocytes and T-, B-, and NK cells untreated (2) or incubated with PMA/ionomycin (1) for 16 h were immunoprecipitated with anti-TLR2 mAb (TL2.1), subjected to gel electrophoresis, and analyzed by autoradiography. Bands from the molecular weight marker (kDa) are indicated.



#### Flow Cytometry:

Expression of TLR2 in human blood cell populations. Whole blood was double-stained with control mAbs (mulg-A488 and mulgG1-PE) or mAbs to TLR2 (TL2.1-A488) together with PE-conjugated anti-CD3 and CD14 mAbs and examined by flow cytometry. Contour plots shown are from one representative experiment repeated five times with different donors.