

## Product datasheet

### Anti-TLR2 antibody [T2.5] ab16894

★★★★★ [1 Abreviews](#) [29 References](#) [3 Images](#)

#### Overview

<b>Product name</b>	Anti-TLR2 antibody [T2.5]
<b>Description</b>	Mouse monoclonal [T2.5] to TLR2
<b>Host species</b>	Mouse
<b>Specificity</b>	The endotoxin concentration is < 24 EU/mg, determined with HIT302 LAL Assay. Negative control: CHO cells.
<b>Tested applications</b>	<b>Suitable for:</b> WB, Functional Studies, Flow Cyt
<b>Species reactivity</b>	<b>Reacts with:</b> Mouse, Human
<b>Immunogen</b>	Synthetic peptide corresponding to Mouse TLR2. Database link: <a href="#">Q9QUN7</a>
<b>Positive control</b>	Flow Cyt: RAW 264.7 cells. WB: Human lymph node tissue lysate.
<b>General notes</b>	<p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&amp;As</p>

#### Properties

<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
<b>Storage buffer</b>	Constituents: PBS, 0.1% BSA
<b>Purity</b>	Protein G purified
<b>Purification notes</b>	0.2 µm filtered
<b>Clonality</b>	Monoclonal
<b>Clone number</b>	T2.5
<b>Isotype</b>	IgG1

## Applications

### The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab16894 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB	★★★★★ (1)	Use at an assay dependent concentration. Predicted molecular weight: 89 kDa.
Functional Studies		Use at an assay dependent concentration. Mice were injected i.p. with 1 mg ab16894, after 1 hour incubation mice were challenged; 5 µg/ml was added to cell culture.
Flow Cyt		Use at an assay dependent concentration. <b>ab170190</b> - Mouse monoclonal IgG1, is suitable for use as an isotype control with this antibody. 4 x 10 <sup>4</sup> leukocytes/ml were stained for 30 minutes at 4 °C.

## Target

### Function

Cooperates with LY96 to mediate the innate immune response to bacterial lipoproteins and other microbial cell wall components. Cooperates with TLR1 to mediate the innate immune response to bacterial lipoproteins or lipopeptides. Acts via MYD88 and TRAF6, leading to NF-kappa-B activation, cytokine secretion and the inflammatory response. May also promote apoptosis in response to lipoproteins. Recognizes mycoplasmal macrophage-activating lipopeptide-2kD (MALP-2), soluble tuberculosis factor (STF), phenol-soluble modulin (PSM) and B.burgdorferi outer surface protein A lipoprotein (OspA-L) cooperatively with TLR6.

### Tissue specificity

Highly expressed in peripheral blood leukocytes, in particular in monocytes, in bone marrow, lymph node and in spleen. Also detected in lung and in fetal liver. Levels are low in other tissues.

### Sequence similarities

Belongs to the Toll-like receptor family.  
Contains 14 LRR (leucine-rich) repeats.  
Contains 1 TIR domain.

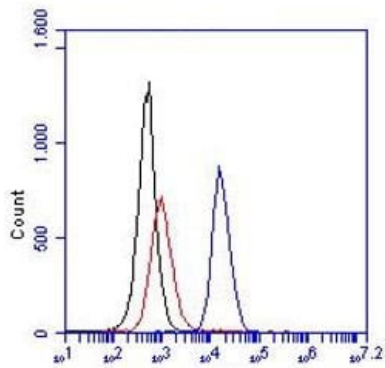
### Post-translational modifications

Glycosylation of Asn-442 is critical for secretion of the N-terminal ectodomain of TLR2.

### Cellular localization

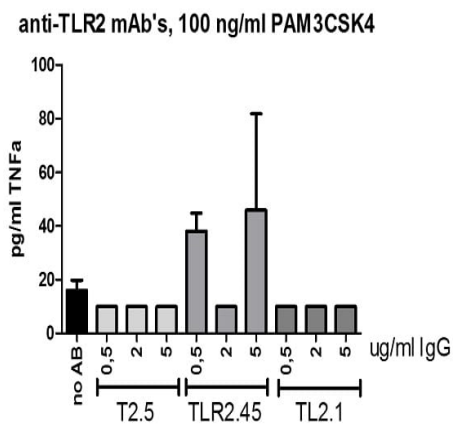
Membrane.

## Images



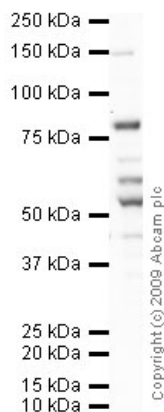
Detection of TLR2 in RAW cells. Red, black and blue line represent the isotype control, cells only and ab16894 at 10 µg/ml, respectively.

Flow Cytometry - Anti-TLR2 antibody [T2.5]  
(ab16894)



Effect of anti-TLR antibodies on TNF production in a whole blood model.

Functional Studies - Anti-TLR2 antibody [T2.5]  
(ab16894)



Western blot - Anti-TLR2 antibody [T2.5] (ab16894)

Anti-TLR2 antibody [T2.5] (ab16894) at 1/100 dilution + Human lymph node tissue lysate - total protein (**ab29871**) at 10 µg

#### Secondary

Goat polyclonal to Mouse IgG - H&L - Pre-Adsorbed (HRP) at 1/3000 dilution

**Predicted band size:** 89 kDa

**Observed band size:** 89 kDa

**Additional bands at:** 60 kDa, 65 kDa. We are unsure as to the identity of these extra bands.

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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