

## Product datasheet

# Anti-TIRAP antibody ab17218

★★★★★ 2 Abreviews 4 References 4 Images

### Overview

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<b>Product name</b>	Anti-TIRAP antibody
<b>Description</b>	Rabbit polyclonal to TIRAP
<b>Host species</b>	Rabbit
<b>Tested applications</b>	<b>Suitable for:</b> WB, ICC/IF, IHC-P
<b>Species reactivity</b>	<b>Reacts with:</b> Mouse, Rat, Human <b>Predicted to work with:</b> Rhesus monkey
<b>Immunogen</b>	Synthetic peptide. 15 amino acids near the C-terminus of mouse TIRAP (GenBank accession no.AAL05628).
<b>Positive control</b>	Human heart cell lysates

### Properties

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<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Store at -20°C. Avoid freeze / thaw cycle. Stable for 12 months at -20°C.
<b>Storage buffer</b>	Preservative: 0.02% Sodium Azide Constituents: PBS
<b>Purity</b>	Immunogen affinity purified
<b>Purification notes</b>	ab17218 is purified by ion exchange chromatography. TIRAP Antibody is affinity chromatography purified via peptide column.
<b>Clonality</b>	Polyclonal
<b>Isotype</b>	IgG

### Applications

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Our [Abpromise guarantee](#) covers the use of **ab17218** 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		Use a concentration of 0.5 - 2 µg/ml. Detects a band of approximately 34 kDa. Can be blocked with <a href="#">Mouse TIRAP peptide (ab39884)</a> .
ICC/IF	★★★★☆	Use at an assay dependent concentration.
IHC-P	★★★★★	Use a concentration of 2 µg/ml.

## Target

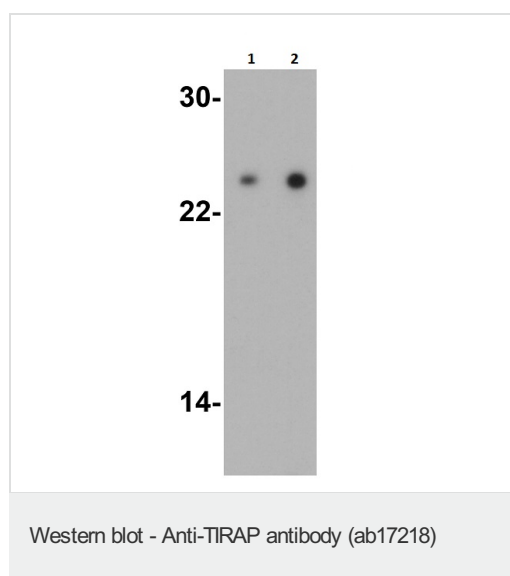
### Relevance

The Toll-like receptor (TLR) family in mammals comprises a family of transmembrane proteins characterized by multiple copies of leucine rich repeats in the extracellular domain and IL-1 receptor motif in the cytoplasmic domain. Like its counterparts in *Drosophila*, TLRs signal through adaptor molecules. The TLR family is a phylogenetically conserved mediator of innate immunity that is essential for microbial recognition. Ten human homologs of TLRs (TLR1-10) have been described. TIRAP (TIR domain-containing adaptor protein) is an adaptor protein used by TLR4. Blocking TIRAP inhibits TLR4-mediated signaling events, including DC maturation and cytokine production. Function: Adapter involved in TLR2 and TLR4 signaling pathways in the innate immune response. Acts via IRAK2 and TRAF-6, leading to the activation of NF-kappa-B, MAPK1, MAPK3 and JNK, and resulting in cytokine secretion and the inflammatory response. Positively regulates the production of TNF-alpha and interleukin-6. Tissue specificity: Highly expressed in liver, kidney, spleen, skeletal muscle and heart. Also detected in peripheral blood leukocytes, lung, placenta, small intestine, thymus, colon and brain. Post-translational modification: Phosphorylated by IRAK1 and IRAK4. Also phosphorylated by BTK. Sequence similarities: Contains 1 TIR domain.

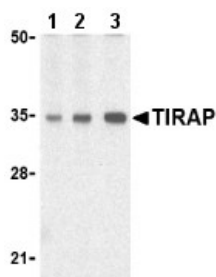
### Cellular localization

Cytoplasmic

## Images



Western Blot of human heart lysate labeling TIRAP with Anti-TIRAP antibody (ab17218) at (1) 1 and (2) 2µg/ml.



Western blot - Anti-TIRAP antibody (ab17218)

**Lane 1** : Anti-TIRAP antibody (ab17218) at

0.5 µg/ml

**Lane 2** : Anti-TIRAP antibody (ab17218) at 1

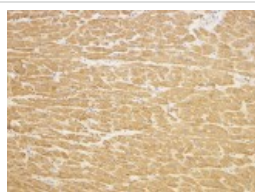
µg/ml

**Lane 3** : Anti-TIRAP antibody (ab17218) at 2

µg/ml

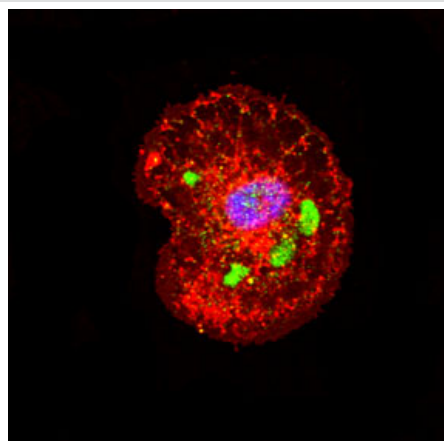
**All lanes** : heart cell lysate

**Observed band size:** 35 kDa



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-TIRAP antibody (ab17218)

ab17218 at 2µg/ml staining TIRAP in human heart cells by IHC



Immunocytochemistry/ Immunofluorescence - Anti-TIRAP antibody (ab17218)

This image is courtesy of an Anonymous Abreview.

ab17218 staining TIRAP in a PMA-treated Human THP-1 cell by Immunocytochemistry/ Immunofluorescence. Cells were fixed in paraformaldehyde for 30 minutes and permeabilized in 0.1% Triton X-100 prior to blocking in 5% serum for 1 hour at 20°C. The primary antibody was diluted 1/200 and incubated with the sample for 1 hour at 20°C. The secondary antibody was Alexa Fluor® 488-conjugated goat anti-rabbit polyclonal, diluted 1/500 (green). Other stains used were Alexa Fluor 595-conjugated wheat germ agglutinin (red) and Nuclei were stained with Hoechst 33258 (blue)

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