

For Research Use Only

# TLR5 Monoclonal antibody

Catalog Number: 66570-1-Ig **1 Publications**



## Basic Information

<b>Catalog Number:</b> 66570-1-Ig	<b>GenBank Accession Number:</b> BC109119	<b>Purification Method:</b> Protein G purification
<b>Concentration:</b> 1500 µg/ml	<b>GeneID (NCBI):</b> 7100	<b>CloneNo.:</b> 4B3D2
<b>Source:</b> Mouse	<b>UNIPROT ID:</b> O60602	<b>Recommended Dilutions:</b> WB: 1:1000-1:6000 IF/ICC: 1:400-1:1600 FC (Intra): 0.40 ug per 10 <sup>6</sup> cells in a 100 µl suspension
<b>Isotype:</b> IgG1	<b>Full Name:</b> toll-like receptor 5	
<b>Immunogen Catalog Number:</b> AG13840	<b>Calculated MW:</b> 858 aa, 98 kDa <b>Observed MW:</b> 100 kDa	

## Applications

<b>Tested Applications:</b> WB, IF/ICC, FC (Intra), ELISA	<b>Positive Controls:</b> WB : A549 cells, THP-1 cells, rat spleen tissue, HeLa cells, RAW 264.7 cells IF/ICC : THP-1 cells, FC (Intra) : THP-1 cells,
<b>Cited Applications:</b> WB	
<b>Species Specificity:</b> human, mouse, rat, pig	
<b>Cited Species:</b> mouse	

## Background Information

TLR5 belongs to the Toll-like receptor family which are important in the innate immune response to pathogens. TLRs are highly conserved from Drosophila to humans and share structural and functional similarities. TLR5 is known to recognize bacterial flagellin from invading mobile bacteria. TLR5 acts via MYD88 and TRAF6, leading to NF-kappa-B activation, cytokine secretion and the inflammatory response. Mutations in TLR5 gene have been associated with both resistance and susceptibility to systemic lupus erythematosus, and susceptibility to Legionnaire disease.

## Notable Publications

Author	Pubmed ID	Journal	Application
Juncheng Liu	39424815	Nutr Diabetes	WB

## Storage

**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol, pH7.3  
Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:

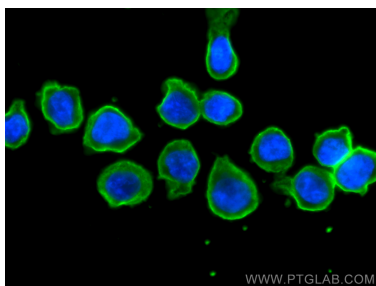
T: 4006900926

E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)

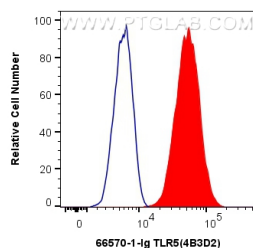
W: [ptgcn.com](http://ptgcn.com)

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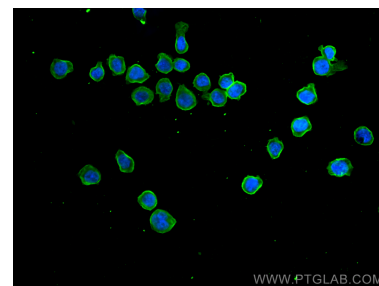
## Selected Validation Data



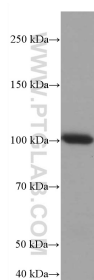
Immunofluorescent analysis of (4% PFA) fixed THP-1 cells using TLR5 antibody (66570-1-Ig, Clone: 4B3D2 ) at dilution of 1:800 and CoraLite®488-Conjugated Goat Anti-Mouse IgG(H+L).



1X10<sup>6</sup> THP-1 cells were intracellularly stained with 0.4 ug Anti-Human TLR5 (66570-1-Ig, Clone:4B3D2) and CoraLite®488-Conjugated Goat Anti-Mouse IgG(H+L) at dilution 1:1000 (red), or 0.4 ug Mouse IgG1 Isotype Control (MOPC-21) (65124-1-Ig, Clone: MOPC-21) (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).



Immunofluorescent analysis of (4% PFA) fixed THP-1 cells using TLR5 antibody (66570-1-Ig, Clone: 4B3D2 ) at dilution of 1:800 and CoraLite®488-Conjugated Goat Anti-Mouse IgG(H+L).



A549 cells were subjected to SDS PAGE followed by western blot with 66570-1-Ig (TLR5 antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.