

For Research Use Only

TLR5 Monoclonal antibody

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



Basic Information

Catalog Number: 66570-1-Ig	GenBank Accession Number: BC109119	Purification Method: Protein G purification
Size: 150ul , Concentration: 1500 ug/ml by Nanodrop and 1000 ug/ml by Bradford method using BSA as the standard;	GeneID (NCBI): 7100	CloneNo.: 4B3D2
Source: Mouse	UNIPROT ID: O60602	Recommended Dilutions: WB: 1:1000-1:6000 IF/ICC: 1:400-1:1600 FC (Intra): 0.40 ug per 10 ⁶ cells in a 100 µl suspension
Isotype: IgG1	Full Name: toll-like receptor 5	
Immunogen Catalog Number: AG13840	Calculated MW: 858 aa, 98 kDa	
	Observed MW: 100 kDa	

Applications

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

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

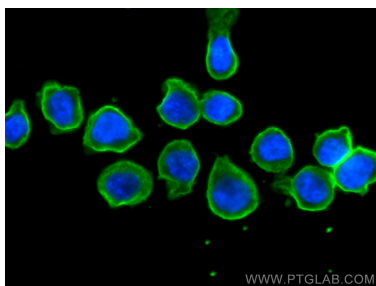
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

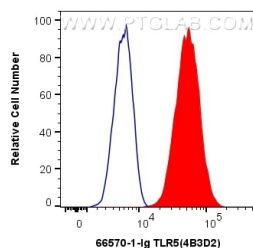
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

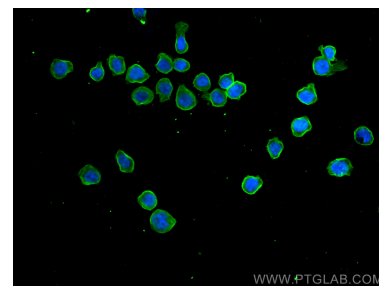
Selected Validation Data



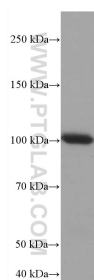
Immunofluorescent analysis of (4% PFA) fixed THP-1 cells using TLR5 antibody (66570-1-Ig, Clone: 4B3D2) at dilution of 1:800 and CoraLite®488-Conjugated Goat Anti-Mouse IgG(H+L).



1X10⁶ 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.