

For Research Use Only

# CD14 Monoclonal antibody

Catalog Number: 60253-1-Ig **8 Publications**



## Basic Information

<b>Catalog Number:</b> 60253-1-Ig	<b>GenBank Accession Number:</b> BC010507	<b>Purification Method:</b> Protein G purification
<b>Size:</b> 150ul , Concentration: 500 µg/ml by Bradford method using BSA as the standard;	<b>GeneID (NCBI):</b> 929	<b>CloneNo.:</b> 2C1D9
<b>Source:</b> Mouse	<b>Full Name:</b> CD14 molecule	<b>Recommended Dilutions:</b> WB 1:500-1:2000 IHC 1:1000-1:4000 IF 1:50-1:500
<b>Isotype:</b> IgG1	<b>Calculated MW:</b> 375 aa, 40 kDa	
<b>Immunogen Catalog Number:</b> AG10693	<b>Observed MW:</b> 55 kDa	

## Applications

<b>Tested Applications:</b> IF, IHC, WB, ELISA	<b>Positive Controls:</b> WB : THP-1 cells, RAW 264.7 cells
<b>Cited Applications:</b> Cell treatment, IF, IHC, WB	<b>IHC :</b> human tonsillitis tissue,
<b>Species Specificity:</b> human, mouse	<b>IF :</b> RAW 264.7 cells, human tonsillitis tissue
<b>Cited Species:</b> human, mouse, rabbit	
<b>Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0</b>	

## Background Information

CD14 is a 50-55 kDa glycosylphosphatidylinositol-anchored glycoprotein preferentially expressed on monocytes and macrophages, and at lower levels on granulocytes (PMID: 3385210; 2462937; 7685797). CD14 can also exist as a soluble protein. CD14 acts as a co-receptor for bacterial liposaccharides (LPS) (PMID: 1698311). It plays a major role in the inflammatory response of monocytes to LPS.

## Notable Publications

Author	Pubmed ID	Journal	Application
Zeqing Zhai	34480835	Arthritis Rheumatol	IF
Sairong Fan	34658894	Front Pharmacol	Cell treatment
Jia Xiong	35320754	Mol Cell	IHC

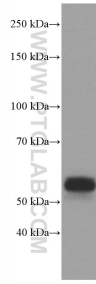
## Storage

**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
Aliquoting is unnecessary for -20°C storage

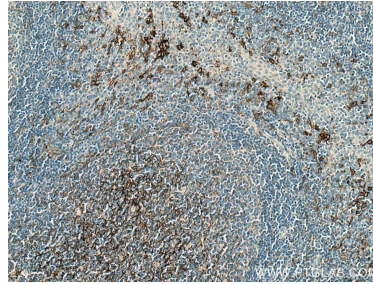
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: proteintech@ptglab.com  
W: ptglab.com

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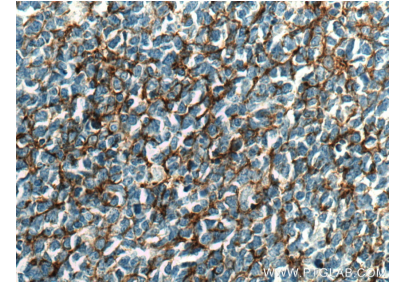
## Selected Validation Data



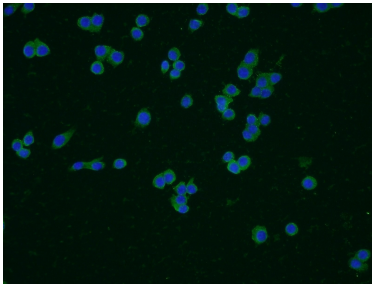
THP-1 cells were subjected to SDS PAGE followed by western blot with 60253-1-Ig (CD14 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



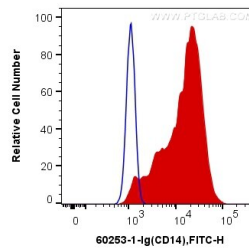
Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 60253-1-Ig (CD14 antibody) at dilution of 1:2000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 60253-1-Ig (CD14 antibody) at dilution of 1:2000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of RAW 264.7 cells using 60253-1-Ig (CD14 antibody) at dilution of 1:50 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Mouse IgG (H+L).



1X10<sup>6</sup> THP-1 cells were surface stained with 0.4 ug Anti-Human CD14 (60253-1-Ig, Clone:2C1D9) and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L) at dilution 1:1000 (red), or 0.4 ug Control Antibody. Cells were not fixed.