

For Research Use Only

CD14 Monoclonal antibody

Catalog Number: 60253-1-Ig **15 Publications**



Basic Information

Catalog Number: 60253-1-Ig	GenBank Accession Number: BC010507	Purification Method: Protein G purification
Size: 150ul, Concentration: 1000 µg/ml by Nanodrop and 500 µg/ml by Bradford method using BSA as the standard;	GeneID (NCBI): 929	CloneNo.: 2C1D9
Source: Mouse	ENSEMBL Gene ID: ENSG00000170458	Recommended Dilutions: WB 1:500-1:2000 IHC 1:1000-1:4000 IF 1:50-1:500
Isotype: IgG1	UNIPROT ID: P08571	
Immunogen Catalog Number: AG10693	Full Name: CD14 molecule	
	Calculated MW: 375 aa, 40 kDa	
	Observed MW: 55 kDa	

Applications

Tested Applications: WB, IF, FC, IHC, ELISA	Positive Controls: WB: THP-1 cells, RAW 264.7 cells
Cited Applications: WB, IF, FC, IHC, Cell treatment	IHC: human tonsillitis tissue,
Species Specificity: human, mouse	IF: RAW 264.7 cells, human tonsillitis tissue
Cited Species: human, mouse, rabbit	

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

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
Haochen Hui	36208807	Int J Biol Macromol	WB
Jia Xiong	35320754	Mol Cell	IHC

Storage

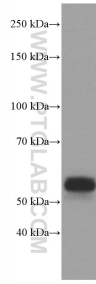
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

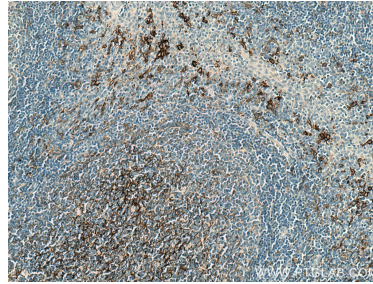
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

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

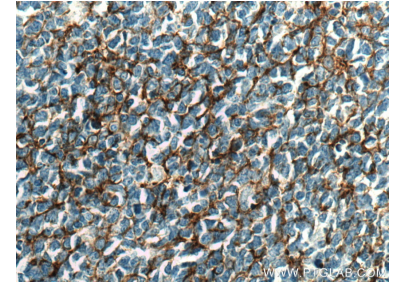
Selected Validation Data



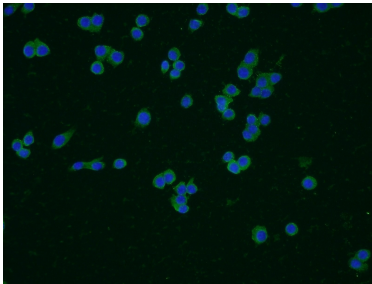
THP-1 cells were subjected to SDS PAGE followed by western blot with 60253-1-Ig (CD14 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



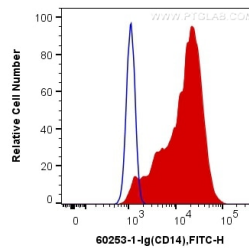
Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 60253-1-Ig (CD14 antibody) at dilution of 1:2000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



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).



1×10^6 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.