

For Research Use Only

# CD14 Polyclonal antibody

Catalog Number: 17000-1-AP **24 Publications**



## Basic Information

<b>Catalog Number:</b> 17000-1-AP	<b>GenBank Accession Number:</b> BC010507	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 150UL, Concentration: 233 µg/ml by Bradford method using BSA as the standard;	<b>GeneID (NCBI):</b> 929	<b>Recommended Dilutions:</b> WB 1:500-1:1000 IHC 1:1000-1:4000 IF 1:50-1:500
<b>Source:</b> Rabbit	<b>Full Name:</b> CD14 molecule	
<b>Isotype:</b> IgG	<b>Calculated MW:</b> 375 aa, 40 kDa	
<b>Immunogen Catalog Number:</b> AG10693	<b>Observed MW:</b> 50-55 kDa	

## Applications

<b>Tested Applications:</b> FC, IF, IHC, WB, ELISA	<b>Positive Controls:</b> WB: HL-60 cells, RAW 264.7 cells, human spleen tissue IHC: human hepatocirrhosis tissue, human tonsillitis tissue IF: RAW 264.7 cells,
<b>Cited Applications:</b> FC, IF, IHC, WB	
<b>Species Specificity:</b> human, mouse	
<b>Cited Species:</b> human, mouse, RAT, swine	
<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. CD14 is preferentially expressed on monocytes and macrophages. CD14 acts as a co-receptor (along with TLR4 and MD-2) for bacterial liposaccharides (LPS). It plays a major role in the inflammatory response of monocytes to LPS.

## Notable Publications

Author	Pubmed ID	Journal	Application
Su Jin Kim	32875703	EMBO Rep	IF
Hon-Kan Yip	33162819	Int J Biol Sci	IF
Chao Liang	31594926	Nat Commun	FC

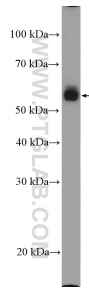
## Storage

**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

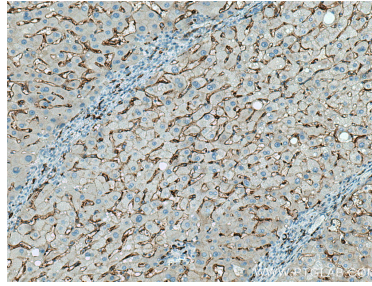
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: proteintech@ptglab.com  
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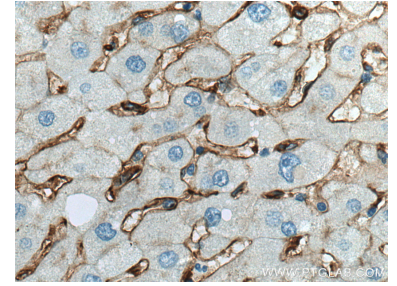
## Selected Validation Data



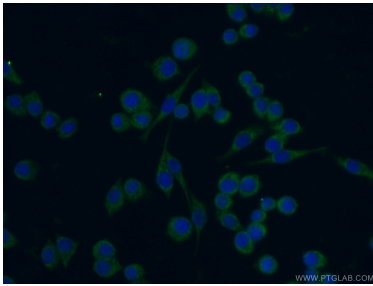
HL-60 cells were subjected to SDS PAGE followed by western blot with 17000-1-AP (CD14 Antibody) at dilution of 1:600 incubated at room temperature for 1.5 hours.



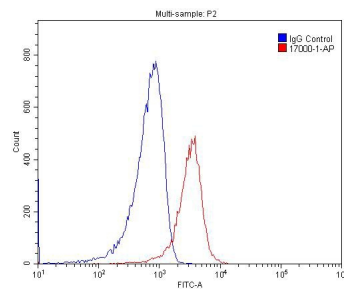
Immunohistochemical analysis of paraffin-embedded human hepatocirrhosis tissue slide using 17000-1-AP (CD14 antibody) at dilution of 1:2000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human hepatocirrhosis tissue slide using 17000-1-AP (CD14 antibody) at dilution of 1:2000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (-20 Ethanol) fixed RAW 264.7 cells using 17000-1-AP (CD14 antibody) at dilution of 1:50 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



$1 \times 10^6$  RAW 264.7 cells were stained with 0.2ug CD14 antibody (17000-1-AP, red) and control antibody (blue). Fixed with 4% PFA blocked with 3% BSA (30 min). Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) with dilution 1:1500.