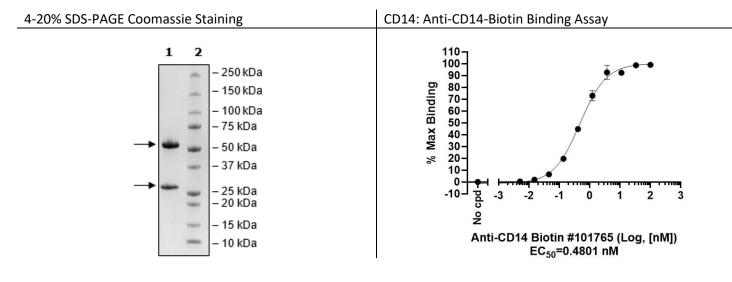
## Anti-CD14 Antibody, Biotin-Labeled

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Description:	Recombinant human anti-CD14 antibody recognizing human CD14 protein. This anti- CD14 antibody is a purified recombinant antibody, which is labeled with biotin using
	Avi-Tag <sup>™</sup> technology at the C-terminus of the heavy chain unit.
Background:	CD14 (Cluster of Differentiation-14) is a surface antigen expressed predominantly by
Buckground	monocytes and macrophages. It is considered a patterned recognition receptor (PRR),
	which recognizes pathogen markers. Specifically, CD14 acts as a co-receptor for
	lipopolysaccharides (LPS) found in the outer membrane of gram-negative bacteria.
	Through this interaction, CD14 supports initiation of the innate immune response
	during bacterial infection. CD14 also contributes toward immune responses to viral
	pathogens such as human respiratory syncytial virus (RSV) and may amplify the
	inflammatory response observed in severe cases of SARS-CoV-2 infection (COVID-19).
	Monoclonal antibodies against CD14 are currently undergoing clinical trial as a
	candidate treatment to limit severe inflammatory responses common in patients
	hospitalized with COVID-19.
Species:	Human
Isotype:	IgG4ĸ
Clonality:	Monoclonal
Concentration:	1.29 mg/ml
Expression System:	HEK293
Purity:	≥90%
Format:	Aqueous buffer solution.
Formulated In:	8 mM phosphate, pH 7.4, 110 mM NaCl, 2.2 mM KCl, and 20% glycerol
MW:	Heavy Chain: 51 kDa; Light Chain: 24 kDa + glycans
Glycosylation:	This antibody runs at a higher MW by SDS-PAGE due to glycosylation.
Label:	This protein is enzymatically biotinylated using Avi-Tag <sup>™</sup> technology. Biotinylation
o. 1	confirmed to be $\geq$ 90%.
Stability:	At least 6 months at -80°C.
Storage:	-80°C
Instructions for Use:	Thaw on ice and gently mix prior to use. DO NOT VORTEX. Perform a quick spin before
	opening. Aliquot into small volumes and flash freeze for long term storage. Avoid
Accour Conditiona	multiple freeze/thaw cycles. The antibody was validated by measuring its binding to CD14 antigen by ELISA. The
Assay Conditions:	CD14 protein (BPS Bioscience #101187) was coated onto a 96-well plate overnight at
	$4^{\circ}$ C (50 µl/well at a concentration of 4 µg/ml in PBS). The plate was washed 3 times
	with Immuno Buffer 1 (BPS Bioscience #79311) and blocked using 100 $\mu$ l of Blocking
	Buffer 2 (BPS Bioscience #79728) for 1 hour at room temperature. After removing the
	blocking buffer, 50 μl/well of purified biotinylated anti-CD14 antibody (BPS Bioscience
	#101765), serially diluted in Blocking Buffer 2, was added for 30 minutes at room
	temperature. The plate was washed, incubated with Streptavidin-HRP, washed again,
	and incubated with the Colorimetric HRP substrate. The reaction was stopped, and
	absorbance was read at 450 nm. The Blank value was subtracted from all values.
Applications:	Useful for studying the binding of CD14 in ELISA and in cellular assays.
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Quality Control Data



	1	2	3	4			
				*	– 250 kDa		
				-	– 150 kDa		
				-	– 100 kDa		Beads
1724	(inter			-	– 75 kDa		Flow thru Control
-	-		•		– 50 kDa		Standards
				-	– 37 kDa		
-	-		-	-	– 25 kDa	*	Avidin from beads.
- <b>•</b>	-			-	– 20 kDa		, ment nort bound.
				-	– 15 kDa		
				-	- 10 kDa		

