

Human sCD14 Antibody Pair Set

Catalog No.	E-KAB-0063	Applications	ELISA
Synonyms	CD14 Antigen, Monocyte Differentiation Antigen CD14		

Kit components & Storage

Title	Specifications	Storage
Human sCD14 Capture Antibody	1 vial, 100 µg	Store at -20°C for one year. Avoid freeze / thaw cycles.
Human sCD14 Detection Antibody (Biotin)	1 vial, 50 µL	Store at -20°C for one year. Avoid freeze / thaw cycles.

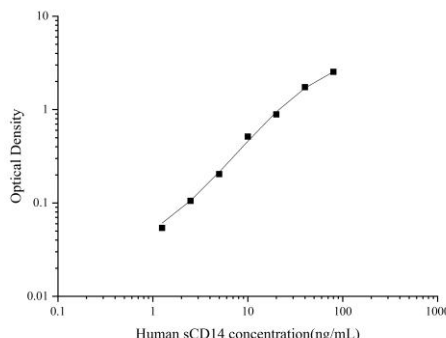
Note: Centrifuge before opening to ensure complete recovery of vial contents.

Product Information

Items		Characteristic (E-KAB-0063)	
		Human sCD14 Capture Antibody	Human sCD14 Detection Antibody (Biotin)
Immunogen Information	Immunogen	Recombinant Human sCD14 protein	Recombinant Human sCD14 protein
	Swissprot	P08571	
Product details	Reactivity	Human	Human
	Host	Mouse	Sheep
	Conjugation	Unconjugated	Biotin
	Concentration	0.5mg/mL	/
	Buffer	PBS with 0.04% Proclin 300, 50% glycerol, pH 7.4	PBS with 0.04% Proclin 300, 1% protective protein, 50% glycerol, pH 7.4
	Purify	Protein A or G	Antigen Affinity
	Specificity	Detects Human sCD14 in ELISAs.	

Applications

Human sCD14 Sandwich ELISA Assay:

	Recommended Concentration/Dilution	Reagent	Images																
ELISA Capture	0.5-4µg/mL	Human sCD14 Capture Antibody	 <p>The graph is a log-log plot. The y-axis is labeled 'Optical Density' and ranges from 0.01 to 10. The x-axis is labeled 'Human sCD14 concentration(ng/mL)' and ranges from 0.1 to 1000. The data points form a straight line with a positive slope, indicating a linear relationship between the concentration of Human sCD14 and the optical density.</p> <table border="1"> <caption>Approximate data points from the standard curve</caption> <thead> <tr> <th>Human sCD14 concentration (ng/mL)</th> <th>Optical Density</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>0.05</td> </tr> <tr> <td>2</td> <td>0.1</td> </tr> <tr> <td>5</td> <td>0.2</td> </tr> <tr> <td>10</td> <td>0.4</td> </tr> <tr> <td>20</td> <td>0.8</td> </tr> <tr> <td>50</td> <td>1.5</td> </tr> <tr> <td>100</td> <td>3.0</td> </tr> </tbody> </table>	Human sCD14 concentration (ng/mL)	Optical Density	1	0.05	2	0.1	5	0.2	10	0.4	20	0.8	50	1.5	100	3.0
Human sCD14 concentration (ng/mL)	Optical Density																		
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ELISA Detection	1:1000-1:10000	Human sCD14 Detection Antibody (Biotin)																	

Note: This standard curve is only for demonstration purposes. A standard curve should be generated for each assay!

Background

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.