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com

Human Cluster of Differentiation 68(CD68) ELISA kit

Product Code	CSB-E15979h
Abbreviation	CD68
Target Name	CD68 molecule
Uniprot No.	P34810
Alias	DKFZp686M18236, GP110, SCARD1, CD68 antigen macrophage antigen CD68 macrosialin scavenger receptor class D, member 1
Product Type	ELISA Kit
Immunogen Species	Homo sapiens (Human)
Sample Types	serum, plasma, tissue homogenates
Detection Range	15.6 pg/mL-1000 pg/mL
Sensitivity	3.9 pg/mL
Assay Time	1-5h
Sample Volume	50-100ul
Detection Wavelength	450 nm
Lead Time	3-5 working days after you place the order, and it takes another 3-5 days for delivery via DHL or FedEx.
Research Area	Immunology
Gene Names	CD68
Tag Info	quantitative
Protein Description	Sandwich
Description	

The product CSB-E15979h is a sandwich ELISA kit developed to measure concentrations of human CD68 in serum, plasma, or tissue homogenates. This assay uses the sandwich enzyme immunoassay technique in combination with the enzyme-substrate chromogenic reaction to quantify the analyte in the sample. The color develops positively to the amount of CD68 in samples. The color intensity is measured at 450 nm via a microplate reader.

CD68 is predominantly expressed in late endosomes and lysosomes of macrophages and is widely considered to be a specific biomarker for macrophages/monocytes. Overexpression of CD68 is indicative of macrophage/monocyte dysfunction and hyperproliferation. Furthermore, CD68 is identified to be a useful biomarker of rheumatoid arthritis and Hodgkin's lymphoma. CD68 alone or in combination with other cell markers of tumorassociated macrophages showed a good predictive value as a prognostic marker of cancer patient survival.

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Target Details	This gene encodes a 110-kD transmembrane glycoprotein that is highly expressed by human monocytes and tissue macrophages. It is a member of the lysosomal/endosomal-associated membrane glycoprotein (LAMP) family. The protein primarily localizes to lysosomes and endosomes with a smaller fraction circulating to the cell surface. It is a type I integral membrane protein with a heavily glycosylated extracellular domain and binds to tissue- and organ-specific lectins or selectins. The protein is also a member of the scavenger receptor family. Scavenger receptors typically function to clear cellular debris, promote phagocytosis, and mediate the recruitment and activation of macrophages. Alternative splicing results in multiple transcripts encoding different isoforms.					
Product Precision	Intra-assay Precision (Precision within an assay): CV%<8% Three samples of known concentration were tested twenty times on one plate to assess. Inter-assay Precision (Precision between assays): CV%<10% Three samples of known concentration were tested in twenty assays to assess.					
Linearity	To asse concent Diluent t ? 1:1 1:2 1:4 1:8	ss the linearity of rations of humar to produce samp Sample Average % Range % Average % Range % Range % Average % Range % Range %	of the assay, samples with CD68 in various matroles with values within the Serum(n= 90 85-95 97 91-105 98 90-104 93 86-98	vere spiked with high ices and diluted with the Sample he dynamic range of the assay. 4)		
Recovery	The reco assay in as direc Sample Serum (EDTA p	overy of human various matrice ted in the Sampl Type n=5) lasma (n=4)	CD68 spiked to levels to s was evaluated. Sam le Preparation section. Average % Recover 95 92	throughout the range of the oles were diluted prior to assay ry Range 89-98 85-99		
Typical	These s should b	These standard curves are provided for demonstration only. A standard curve should be generated for each set of samples assayed.				

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