





Rat Cluster of Differentiation 68, CD68 ELISA kit

Product Code	CSB-E13297r
Abbreviation	CD68
Target Name	Cluster of Differentiation 68, CD68
Uniprot No.	Q4FZY1
Product Type	ELISA Kit
Immunogen Species	Rattus norvegicus (Rat)
Sample Types	serum, plasma, tissue homogenates
Detection Range	0.625 ng/mL-40 ng/mL
Sensitivity	0.156 ng/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	Others
Tag Info	quantitative
Protein Description	Sandwich
Description	

The rat CD68 Elisa kit is suitable for quantitatively measuring human MLCK in serum, plasma, or tissue homogenates. This assay employs the sandwich enzyme immunoassay technique and enzyme-substrate chromogenic reaction. The color develops positively to the amount of MLCK in samples. The color development is stopped and the intensity of the color is measured. This kit displays many advantages, including high sensitivity, strong specificity, good linearity, high precision and recovery, and lot-to-lot consistency.

CD68 is a heavily glycosylated glycoprotein highly expressed in macrophages and other mononuclear phagocytes. It is commonly used as a histochemical/cytochemical marker of inflammation associated with the involvement of human monocytes and macrophages. CD68 alone or in combination with other cell markers of tumor-associated macrophages showed a good predictive value as a prognostic marker of survival in cancer patients. CD68 is mainly located in the endosomal/lysosomal compartment but can rapidly shuttle to the cell surface. It can bind oxLDL, phosphatidylserine, and apoptotic cells and serve as a receptor for malaria sporozoite in liver infection.

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.



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Inter-assay Precision (Precision between assays): CV%<10% Three samples of known concentration were tested in twenty assays to assess.

Linearity

To assess the linearity of the assay, samples were spiked with high concentrations of rat CD68 in various matrices and diluted with the Sample Diluent to produce samples with values within the dynamic range of the assay.

	Sample	Serum(n=4)
1:1	Average %	93
	Range %	86-96
1:2	Average %	102
	Range %	98-105
1:4	Average %	91
	Range %	87-95
1:8	Average %	95
	Range %	91-98

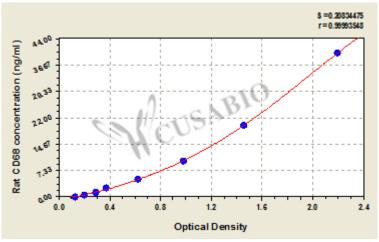
Recovery

The recovery of rat CD68 spiked to levels throughout the range of the assay in various matrices was evaluated. Samples were diluted prior to assay as directed in the Sample Preparation section.

Sample Type	Average % Recovery	Range
Serum (n=5)	89	85-92
EDTA plasma (n=4)	101	94-104

Typical

These standard curves are provided for demonstration only. A standard curve should be generated for each set of samples assayed.



ng/ml OD1 OD2 Average Corrected

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40	2.210	2.188	2.199	2.063
20	1.484	1.444	1.464	1.328
10	0.971	1.008	0.990	0.854
5	0.622	0.645	0.634	0.498
2.5	0.378	0.387	0.383	0.247
1.25	0.304	0.299	0.302	0.166
0.625	0.222	0.212	0.217	0.081
0	0.138	0.134	0.136	

Msds

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