



Rat Macrophage colony-stimulating factor 1 receptor(CSF1R) ELISA kit

Product Code	CSB-EL006044RA
Abbreviation	CSF1R
Target Name	colony stimulating factor 1 receptor
Uniprot No.	Q00495
Alias	C-FMS, CD115, CSFR, FIM2, FMS, CD115 antigen FMS proto-oncogene McDonough feline sarcoma viral (v-fms) oncogene homolog macrophage colony stimulating factor I receptor
Product Type	ELISA Kit
Immunogen Species	Rattus norvegicus (Rat)
Sample Types	serum, plasma, tissue homogenates
Detection Range	0.312 ng/mL-20 ng/mL
Sensitivity	0.078 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	Immunology
Gene Names	Csf1r
Tag Info	quantitative
Protein Description	Sandwich
Description	This Rat CSF1R ELISA Kit was designed for the quantitative measurement of Rat CSF1R protein in serum, plasma, tissue homogenates. It is a Sandwich ELISA kit, its detection range is 0.312 ng/mL-20 ng/mL and the sensitivity is 0.078 ng/mL.
Target Details	This protein is the receptor for colony stimulating factor 1, a cytokine which controls the production, differentiation, and function of macrophages. This receptor mediates most if not all of the biological effects of this cytokine. Ligand binding activates the receptor kinase through a process of oligomerization and transphosphorylation. The encoded protein is a tyrosine kinase transmembrane receptor and member of the CSF1/PDGF receptor family of tyrosine-protein kinases. Mutations in this gene have been associated with a predisposition to myeloid malignancy. The first intron of this gene contains a transcriptionally



inactive ribosomal protein L7 processed pseudogene oriented in the opposite direction.

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 assess the linearity of the assay, samples were spiked with high concentrations of rat CSF1R 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 %	89
	Range %	86-92
1:2	Average %	108
	Range %	104-112
1:4	Average %	89
	Range %	85-94
1:8	Average %	107
	Range %	103-110

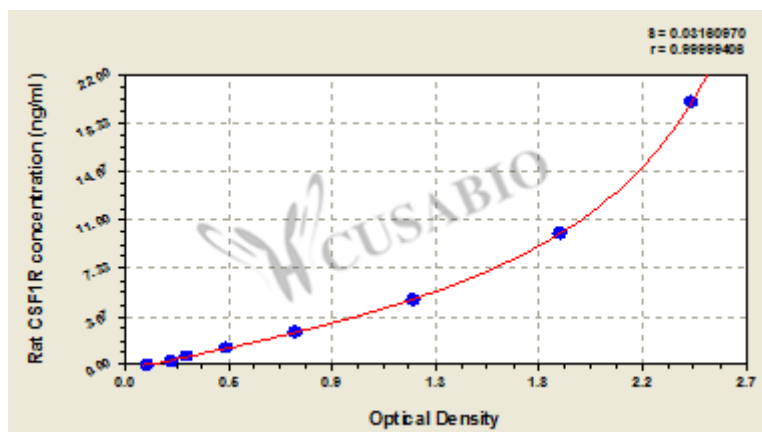
Recovery

The recovery of rat CSF1R 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)	84	80-88
EDTA plasma (n=4)	107	103-110

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
20	2.466	2.438	2.452	2.349
10	1.867	1.902	1.885	1.782
5	1.239	1.268	1.254	1.151
2.5	0.751	0.738	0.745	0.642
1.25	0.445	0.451	0.448	0.345
0.625	0.287	0.269	0.278	0.175
0.312	0.207	0.210	0.209	0.106
0	0.102	0.104	0.103	?

Msds

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