



Guinea pig monocyte chemotactic protein 1,MCP1

ELISA Kit

Product Code	CSB-E13559Gp
Protein Biological Process 2	chemokine
Abbreviation	CCL2
Protein Biological Process 1	Immunity
Target Name	chemokine (C-C motif) ligand 2
Uniprot No.	Q08782
Alias	GDCF-2, HC11, HSMCR30, MCAF, MCP-1, MCP1, MGC9434, SCYA2, SMC-CF, monocyte chemoattractant protein-1 monocyte chemotactic and activating factor monocyte secretory protein JE small inducible cytokine
Product Type	ELISA Kit
Immunogen Species	Cavia porcellus (Guinea pig)
Protein Biological Process 3	Chemotaxis
Sample Types	serum, plasma, tissue homogenates
Detection Range	23.5 pg/mL-1500 pg/mL
Sensitivity	5.8 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	CCL2
Tag Info	quantitative
Protein Description	Sandwich
Description	This Guinea pig CCL2 ELISA Kit was designed for the quantitative measurement of Guinea pig CCL2 protein in serum, plasma, tissue homogenates. It is a Sandwich ELISA kit, its detection range is 23.5 pg/mL-1500 pg/mL and the sensitivity is 5.8 pg/mL.
Target Details	This gene is one of several cytokine genes clustered on the q-arm of



chromosome 17. Cytokines are a family of secreted proteins involved in immunoregulatory and inflammatory processes. This protein is structurally related to the CXC subfamily of cytokines. Members of this subfamily are characterized by two cysteines separated by a single amino acid. This cytokine displays chemotactic activity for monocytes and basophils but not for neutrophils or eosinophils. It has been implicated in the pathogenesis of diseases characterized by monocytic infiltrates, like psoriasis, rheumatoid arthritis and atherosclerosis. It binds to chemokine receptors CCR2 and CCR4.

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 guinea pig MCP-1 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 %	91
	Range %	86-95
1:2	Average %	102
	Range %	97-107
1:4	Average %	91
	Range %	85-97
1:8	Average %	97
	Range %	91-103

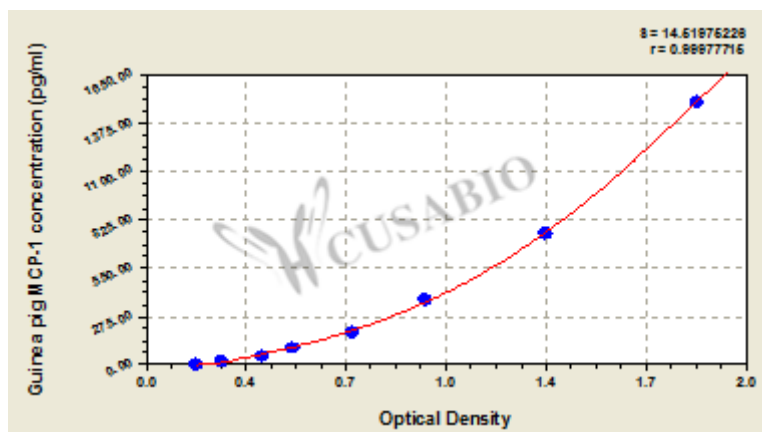
Recovery

The recovery of guinea pig MCP-1 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)	95	89-98
EDTA plasma (n=4)	93	87-98

Typical

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



pg/ml	OD1	OD2	Average	Corrected
1500	1.857	1.902	1.880	1.680
750	1.345	1.403	1.374	1.174
375	0.981	0.954	0.968	0.768
187	0.748	0.700	0.724	0.524
94	0.511	0.532	0.522	0.322
47	0.416	0.426	0.421	0.221
23.5	0.289	0.281	0.285	0.085
0	0.201	0.199	0.200	

Msds

```
{
  "0": {
    "fileurl": "https://www.cusabio.com/uploadfile/msds/MSDS CSB-E13559Gp.pdf",
    "filename": "MSDS"
  }
}
```