



Mouse Lactoferrin,LTF/LF ELISA kit

Product Code	CSB-E08833m
Protein Biological Process 2	Anion transport
Abbreviation	LTF
Protein Biological Process 1	Transport
Target Name	lactotransferrin
Uniprot No.	P08071
Alias	GIG12, HLF2, LF, growth-inhibiting protein 12 lactoferrin neutrophil lactoferrin talalactoferrin
Product Type	ELISA Kit
Immunogen Species	Mus musculus (Mouse)
Protein Biological Process 3	Ion transport
Sample Types	serum, plasma, breast milk
Detection Range	3.12 µg/mL-200 µg/mL
Sensitivity	3.12 µg/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	Cancer
Gene Names	Ltf
Tag Info	quantitative
Protein Description	Competitive
Description	This Mouse LTF ELISA Kit was designed for the quantitative measurement of Mouse LTF protein in serum, plasma, breast milk. It is a Competitive ELISA kit, its detection range is 3.12 µg/mL-200 µg/mL and the sensitivity is 3.12 µg/mL.
Target Details	This gene is a member of the transferrin family of genes and its protein product is found in the secondary granules of neutrophils. The protein is a major iron-binding protein in milk and body secretions with an antimicrobial activity, making it an important component of the non-specific immune system. The protein demonstrates a broad spectrum of properties, including regulation of iron



homeostasis, host defense against a broad range of microbial infections, anti-inflammatory activity, regulation of cellular growth and differentiation and protection against cancer development and metastasis.

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 mouse LTF/LF 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 %	98
	Range %	92-106
1:2	Average %	95
	Range %	91-99
1:4	Average %	102
	Range %	98-107
1:8	Average %	88
	Range %	82-93

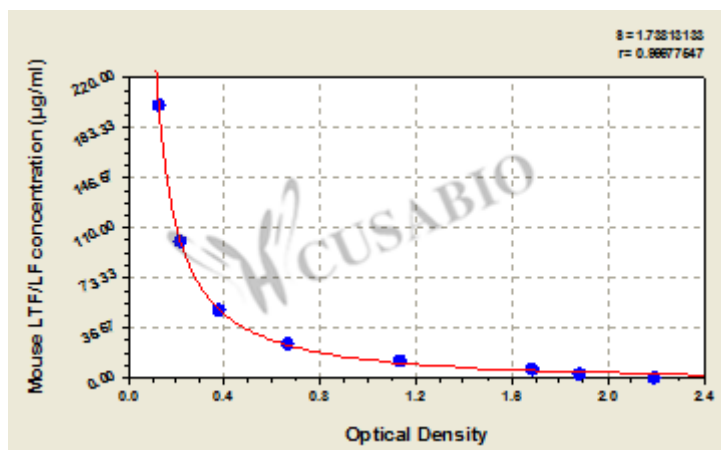
Recovery

The recovery of mouse LTF/LF 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)	94	88-98
EDTA plasma (n=4)	103	98-107

Typical

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



µg/ml OD1 OD2 Average

200	0.137	0.138	0.138
100	0.225	0.231	0.228
50	0.393	0.382	0.388
25	0.668	0.678	0.673
12.5	1.141	1.136	1.139
6.25	1.671	1.698	1.685
3.12	1.915	1.854	1.885
0	2.121	2.264	2.193