



Mouse Mucin-2,MUC2 ELISA Kit

Product Code	CSB-E15065m
Abbreviation	MUC2
Target Name	mucin 2, oligomeric mucus/gel-forming
Uniprot No.	Q80Z19
Alias	MLP, SMUC, mucin 2 mucin 2, intestinal/tracheal mucin-like protein
Product Type	ELISA Kit
Immunogen Species	Mus musculus (Mouse)
Sample Types	serum, plasma, cell culture supernates, tissue homogenates
Detection Range	31.25 pg/mL-2000 pg/mL
Sensitivity	7.81 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	Signal Transduction
Gene Names	Muc2
Tag Info	quantitative
Protein Description	Sandwich
Description	This Mouse MUC2 ELISA Kit was designed for the quantitative measurement of Mouse MUC2 protein in serum, plasma, cell culture supernates, tissue homogenates. It is a Sandwich ELISA kit, its detection range is 31.25 pg/mL-2000 pg/mL and the sensitivity is 7.81 pg/mL.
Target Details	This gene encodes a member of the mucin protein family. Mucins are high molecular weight glycoproteins produced by many epithelial tissues. This protein is secreted and forms an insoluble mucous barrier that protects the gut lumen. The protein polymerizes into a gel of which 80% is composed of oligosaccharide side chains by weight. The protein features a central domain containing tandem repeats rich in threonine and proline that varies between 50 and 115 copies in different individuals. Alternatively spliced transcript variants of this gene have been described, but their full-length nature is not known.
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 MUC2 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)
1:20	Average % Range %
1:40	Average % Range %
1:80	Average % Range %
1:160	Average % Range %

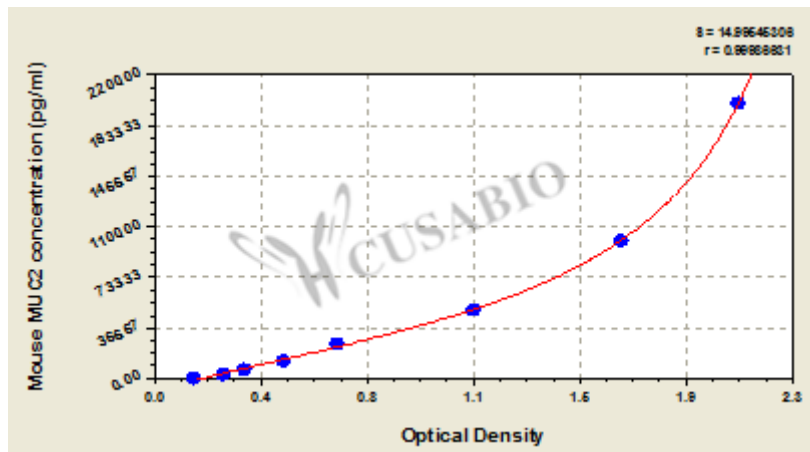
Recovery

The recovery of mouse MUC2 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)	97	89-103
EDTA plasma (n=4)	93	89-98

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
2000	2.113	2.024	2.069	1.916
1000	1.626	1.685	1.656	1.503
500	1.105	1.166	1.136	0.983
250	0.643	0.673	0.658	0.505
125	0.458	0.481	0.470	0.317
62.5	0.319	0.337	0.328	0.175
31.25	0.252	0.262	0.257	0.104
0	0.152	0.154	0.153	

Msds

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