



Human Mucin-4(MUC4) ELISA kit

Product Code	CSB-EL015227HU
Abbreviation	MUC4
Protein Biological Process 1	Cell Adhesion
Target Name	mucin 4, cell surface associated
Uniprot No.	Q99102
Alias	HSA276359, mucin 4 mucin 4, tracheobronchial
Product Type	ELISA Kit
Immunogen Species	Homo sapiens (Human)
Protein Biological Process 3	Cell adhesion
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	Signal Transduction
Gene Names	MUC4
Tag Info	quantitative
Protein Description	Sandwich

Description

This Human MUC4 ELISA Kit was designed for the quantitative measurement of Human MUC4 protein in serum, plasma, tissue homogenates. It is a Sandwich ELISA kit, its detection range is 0.625 ng/mL-40 ng/mL and the sensitivity is 0.156 ng/mL.

Target Details

The major constituents of mucus, the viscous secretion that covers epithelial surfaces such as those in the trachea, colon, and cervix, are highly glycosylated proteins called mucins. These glycoproteins play important roles in the protection of the epithelial cells and have been implicated in epithelial renewal and differentiation. This gene encodes an integral membrane glycoprotein found on the cell surface, although secreted isoforms may exist. At least two dozen transcript variants of this gene have been found, although for many of them the



full-length transcript has not been determined or they are found only in tumor tissues. This gene contains a region in the coding sequence which has a variable number (>100) of 48 nt tandem repeats.

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 human MUC4 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 %	92
	Range %	89-96
1:2	Average %	103
	Range %	98-107
1:4	Average %	95
	Range %	89-99
1:8	Average %	93
	Range %	86-97

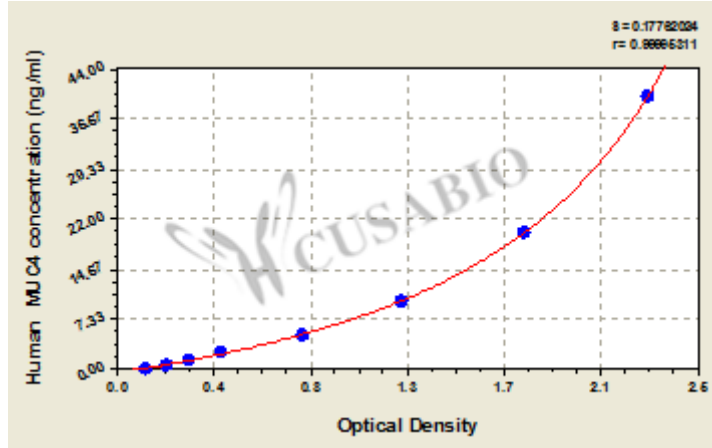
Recovery

The recovery of human MUC4 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)	96	92-98
EDTA plasma (n=4)	88	82-94

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
40	2.235	2.354	2.295	2.163
20	1.816	1.705	1.761	1.629
10	1.224	1.247	1.236	1.104
5	0.801	0.823	0.812	0.680
2.5	0.453	0.464	0.459	0.327
1.25	0.312	0.324	0.318	0.186
0.625	0.224	0.228	0.226	0.094
0	0.131	0.132	0.132	

Msds

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