Human cytokeratin 20,CK20 ELISA Kit

Product Code	CSB-E11710h
Abbreviation	KRT20
Protein Biological Process 1	Apoptosis/Autophagy
Target Name	keratin 20
Uniprot No.	P35900
Alias	CD20, CK20, K20, KRT21, MGC35423, cytokeratin 20|keratin, type I cytoskeletal 20
Product Type	ELISA Kit
Immunogen Species	Homo sapiens (Human)
Protein Biological Process 3	Apoptosis
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	KRT20
Tag Info	quantitative
Protein Description	Sandwich
Description	This Human KRT20 ELISA Kit was designed for the quantitative measurement of Human KRT20 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	This protein is a member of the keratin family. The keratins are intermediate filament proteins responsible for the structural integrity of epithelial cells and are subdivided into cytokeratins and hair keratins. The type I cytokeratins consist of acidic proteins which are arranged in pairs of heterotypic keratin chains. This cytokeratin is a major cellular protein of mature enterocytes and goblet cells and is specifically expressed in the gastric and intestinal mucosa. The type I

cytokeratin genes are clustered in a region of chromosome 17q12-q21.

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 CK20 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 %	103
	Range %	96-108
1:2	Average %	86
	Range %	80-92
1:4	Average %	95
	Range %	90-100
1:8	Average %	94
	Range %	89-99

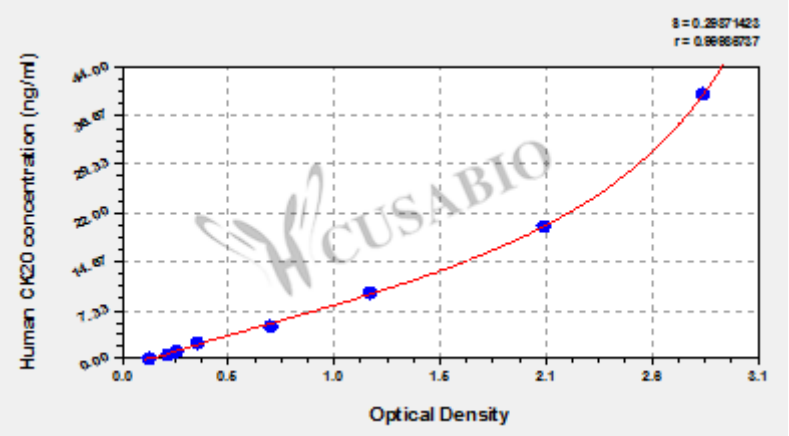
Recovery

The recovery of human CK20 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)	92	88-97
EDTA plasma (n=4)	96	90-102

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	2.766	2.868	2.817	2.673
20	2.101	1.997	2.049	1.905
10	1.172	1.244	1.208	1.064
5	0.725	0.732	0.729	0.585
2.5	0.363	0.387	0.375	0.231
1.25	0.266	0.284	0.275	0.131
0.625	0.228	0.246	0.237	0.093
0	0.144	0.143	0.144	?

Msds

{"0":{"fileurl":"https://www.cusabio.com/uploadfile/msds/MSDS CSB-E11710h.pdf","filename":"MSDS"}}