



Human B-lymphocyte antigen (CD20) ELISA Kit

Product Code	CSB-E14007h
Abbreviation	MS4A1
Protein Biological Process 1	Immunity
Target Name	membrane-spanning 4-domains, subfamily A, member 1
Uniprot No.	P11836
Alias	B1, Bp35, CD20, LEU-16, MGC3969, MS4A2, S7, B-lymphocyte cell-surface antigen B1 CD20 antigen CD20 receptor
Product Type	ELISA Kit
Immunogen Species	Homo sapiens (Human)
Protein Biological Process 3	B-cell activation
Sample Types	serum, plasma, tissue homogenates
Detection Range	3.12 ng/mL-200 ng/mL
Sensitivity	0.78 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	Cell Biology
Gene Names	MS4A1
Tag Info	quantitative
Protein Description	Sandwich

Description

This Human MS4A1 ELISA Kit was designed for the quantitative measurement of Human MS4A1 protein in serum, plasma, tissue homogenates. It is a Sandwich ELISA kit, its detection range is 3.12 ng/mL-200 ng/mL and the sensitivity is 0.78 ng/mL .

Target Details

This gene encodes a member of the membrane-spanning 4A gene family. Members of this nascent protein family are characterized by common structural features and similar intron/exon splice boundaries and display unique expression patterns among hematopoietic cells and nonlymphoid tissues. This gene encodes a B-lymphocyte surface molecule which plays a role in the development and differentiation of B-cells into plasma cells. This family member is localized to 11q12, among a cluster of family members. Alternative splicing of



this gene results in two transcript variants which encode the same protein.

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 CD20 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 %	96
	Range %	90-100
1:2	Average %	89
	Range %	86-92
1:4	Average %	95
	Range %	90-99
1:8	Average %	90
	Range %	86-94

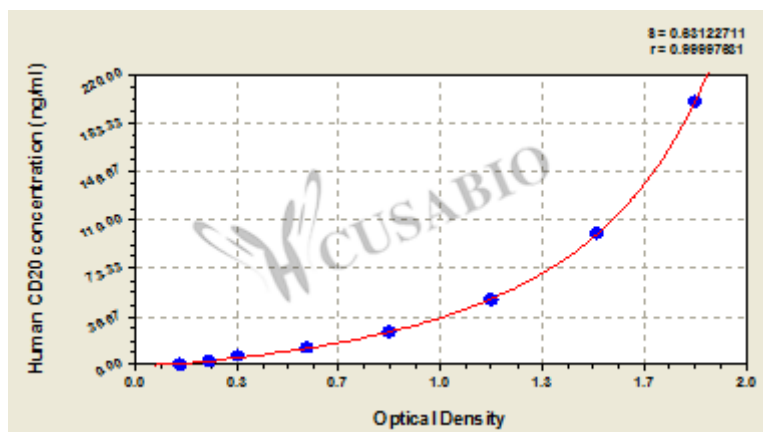
Recovery

The recovery of human CD20 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	92-103
EDTA plasma (n=4)	95	89-99

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
200	1.809	1.849	1.829	1.668
100	1.506	1.519	1.513	1.352
50	1.129	1.211	1.170	1.009
25	0.830	0.846	0.838	0.677
12.5	0.563	0.579	0.571	0.410
6.25	0.340	0.354	0.347	0.186
3.12	0.243	0.264	0.254	0.093
0	0.160	0.162	0.161	?

Msds

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