Human Hyaluronidase-1(HYAL1) ELISA kit

Product Code	CSB-EL010918HU
Abbreviation	HYAL1
Target Name	hyaluronoglucosaminidase 1
Uniprot No.	Q12794
Alias	HYAL-1, LUCA1, MGC45987, NAT6, OTTHUMP00000211076|hyaluronidase 1|plasma hyaluronidase|tumor suppressor LUCA-1
Product Type	ELISA Kit
Immunogen Species	Homo sapiens (Human)
Sample Types	serum, plasma, cell culture supernates, tissue homogenates
Detection Range	1.25 ng/mL-80 ng/mL
Sensitivity	0.31 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	HYAL1
Tag Info	quantitative
Protein Description	Sandwich
Description	This Human HYAL1 ELISA Kit was designed for the quantitative measurement of Human HYAL1 protein in serum, plasma, cell culture supernates, tissue homogenates. It is a Sandwich ELISA kit, its detection range is 1.25 ng/mL-80 ng/mL and the sensitivity is 0.31 ng/mL .
Target Details	This gene encodes a lysosomal hyaluronidase. Hyaluronidases intracellularly degrade hyaluronan, one of the major glycosaminoglycans of the extracellular matrix. Hyaluronan is thought to be involved in cell proliferation, migration and differentiation. This enzyme is active at an acidic pH and is the major hyaluronidase in plasma. Mutations in this gene are associated with mucopolysaccharidosis type IX, or hyaluronidase deficiency. The gene is one of several related genes in a region of chromosome 3p21.3 associated with tumor suppression. Multiple transcript variants encoding different isoforms have been found for this gene.
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 HYAL1 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 %	94
	Range %	90-98
1:2	Average %	97
	Range %	92-104
1:4	Average %	94
	Range %	90-99
1:8	Average %	86
	Range %	82-95

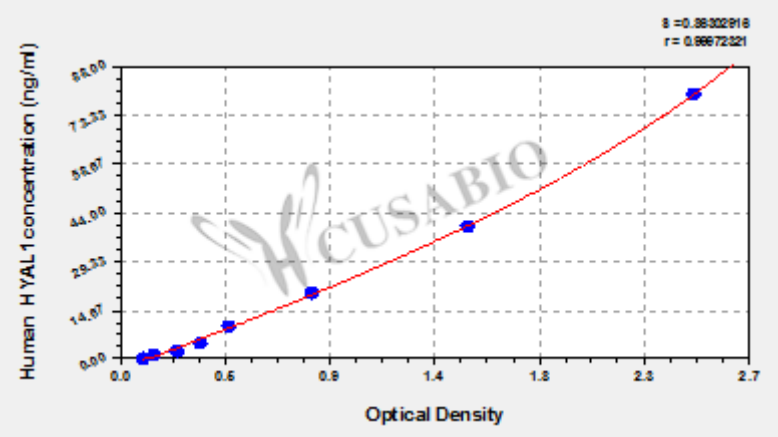
Recovery

The recovery of human HYAL1 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)	89	82-95
EDTA plasma (n=4)	91	89-94

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
80	2.498	2.456	2.477	2.367
40	1.467	1.540	1.504	1.394
20	0.803	0.870	0.837	0.727
10	0.476	0.473	0.475	0.365
5	0.349	0.358	0.354	0.244
2.5	0.251	0.253	0.252	0.142
1.25	0.152	0.160	0.156	0.046
0	0.111	0.109	0.110	?

Msds	{"0":{"fileurl":"https://www.cusabio.com/uploadfile/msds/MSDS CSB-EL010918HU.pdf","filename":"MSDS"}}