Human Neurogenic locus notch homolog protein 3(NOTCH3) ELISA kit

Product Code	CSB-EL015952HU
Abbreviation	NOTCH3
Protein Biological Process 1	Developmental Protein
Target Name	Notch homolog 3 (Drosophila)
Uniprot No.	Q9UM47
Alias	CADASIL, CASIL, Notch homolog 3
Product Type	ELISA Kit
Immunogen Species	Homo sapiens (Human)
Protein Biological Process 3	Differentiation
Sample Types	serum, plasma, tissue homogenates, cell lysates
Detection Range	125 pg/mL-8000 pg/mL
Sensitivity	31.25 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	Epigenetics and Nuclear Signaling
Gene Names	NOTCH3
Tag Info	quantitative
Protein Description	Sandwich
Description	This Human NOTCH3 ELISA Kit was designed for the quantitative measurement of Human NOTCH3 protein in serum, plasma, tissue homogenates, cell lysates. It is a Sandwich ELISA kit, its detection range is 125 pg/mL-8000 pg/mL and the sensitivity is 31.25 pg/mL.
Target Details	This gene encodes the third discovered human homologue of the Drosophilia melanogaster type I membrane protein notch. In Drosophilia, notch interaction with its cell-bound ligands (delta, serrate) establishes an intercellular signalling pathway that plays a key role in neural development. Homologues of the notch-ligands have also been identified in human, but precise interactions between

these ligands and the human notch homologues remains to be determined. Mutations in NOTCH3 have been identified as the underlying cause of cerebral autosomal dominant arteriopathy with subcortical infarcts and leukoencephalopathy (CADASIL).

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 NOTCH3 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 %	85
	Range %	80-90
1:2	Average %	92
	Range %	88-96
1:4	Average %	94
	Range %	87-98
1:8	Average %	97
	Range %	93-101

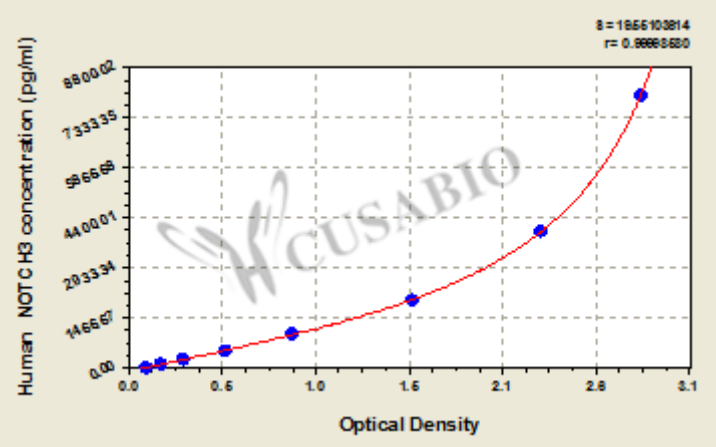
Recovery

The recovery of Human NOTCH3 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)	102	96-108
EDTA plasma (n=4)	93	88-97

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
8000	2.913	2.717	2.815	2.710
4000	2.218	2.315	2.267	2.162
2000	1.605	1.524	1.565	1.460
1000	0.884	0.923	0.904	0.799
500	0.543	0.528	0.536	0.431
250	0.311	0.302	0.307	0.202
125	0.182	0.192	0.187	0.082
0	0.106	0.104	0.105	

Msds

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