



Human Neuronal pentraxin-2(NPTX2) ELISA kit

Product Code	CSB-EL016030HU
Abbreviation	NPTX2
Target Name	neuronal pentraxin II
Uniprot No.	P47972
Alias	NARP, NP-II, NP2, apexin neuronal activity-regulated pentaxin
Product Type	ELISA Kit
Immunogen Species	Homo sapiens (Human)
Sample Types	serum, plasma, tissue homogenates
Detection Range	0.156 ng/mL-10 ng/mL
Sensitivity	0.039 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	Neuroscience
Gene Names	NPTX2
Tag Info	quantitative
Protein Description	Sandwich

Description

This Human NPTX2 ELISA Kit was designed for the quantitative measurement of Human NPTX2 protein in serum, plasma, tissue homogenates. It is a Sandwich ELISA kit, its detection range is 0.156 ng/mL-10 ng/mL and the sensitivity is 0.039 ng/mL.

Target Details

This gene encodes a member of the family of neuronal petraxins, synaptic proteins that are related to C-reactive protein. This protein is involved in excitatory synapse formation. It also plays a role in clustering of alpha-amino-3-hydroxy-5-methyl-4-isoxazolepropionic acid (AMPA)-type glutamate receptors at established synapses, resulting in non-apoptotic cell death of dopaminergic nerve cells. Up-regulation of this gene in Parkinson disease (PD) tissues suggests that the protein may be involved in the pathology of PD.

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 NPTX2 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)
	Average %	96
1:1	Range %	91-100
	Average %	104
1:2	Range %	100-110
	Average %	91
1:4	Range %	85-95
	Average %	93
1:8	Range %	89-97

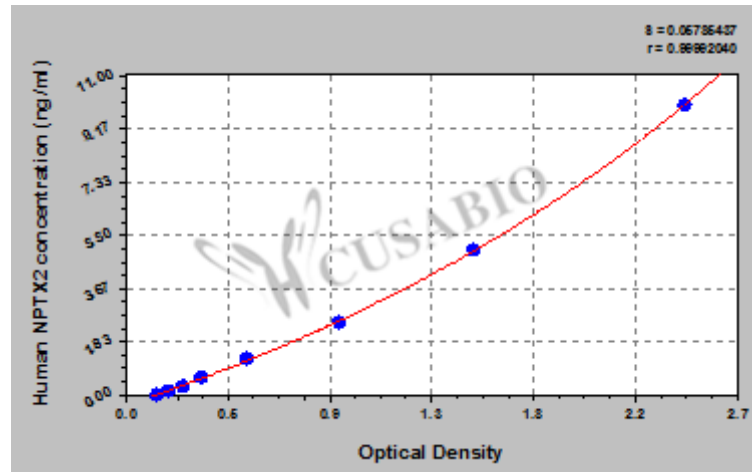
Recovery

The recovery of human NPTX2 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)	95	90-100
EDTA plasma (n=4)	84	80-88

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
10	2.520	2.385	2.453	2.304
5	1.571	1.496	1.534	1.385
2.5	0.919	0.973	0.946	0.797
1.25	0.525	0.557	0.541	0.392
0.625	0.352	0.329	0.341	0.192
0.312	0.268	0.254	0.261	0.112
0.156	0.193	0.201	0.197	0.048
0	0.145	0.152	0.149	?

Msds

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