



Rat Neuromodulin(GAP43) ELISA kit

Product Code	CSB-EL009231RA
Abbreviation	GAP43
Protein Biological Process 1	Developmental Protein
Target Name	growth associated protein 43
Uniprot No.	P07936
Alias	B-50, PP46, axonal membrane protein GAP-43 calmodulin-binding protein P-57 nerve growth-related peptide GAP43 neural phosphoprotein B-50 neuromodulin neuron growth-associated protein 43 protein F1
Product Type	ELISA Kit
Immunogen Species	Rattus norvegicus (Rat)
Protein Biological Process 3	Differentiation
Sample Types	serum, plasma, cell lysates, tissue homogenates
Detection Range	0.312 ng/mL-20 ng/mL
Sensitivity	0.078 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	Gap43
Tag Info	quantitative
Protein Description	Sandwich
Description	This Rat GAP43 ELISA Kit was designed for the quantitative measurement of Rat GAP43 protein in serum, plasma, cell lysates, tissue homogenates. It is a Sandwich ELISA kit, its detection range is 0.312 ng/mL-20 ng/mL and the sensitivity is 0.078 ng/mL.
Target Details	This protein has been termed a growth or plasticity protein because it is expressed at high levels in neuronal growth cones during development and axonal regeneration. This protein is considered a crucial component of an effective regenerative response in the nervous system. Alternatively spliced transcript variants encoding distinct 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 rat GAP43 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 %	98
	Range %	90-102
1:2	Average %	102
	Range %	98-108
1:4	Average %	94
	Range %	88-99
1:8	Average %	97
	Range %	91-103

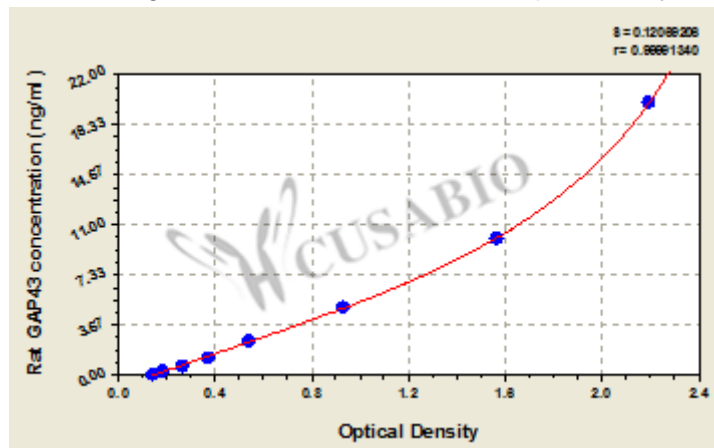
Recovery

The recovery of rat GAP43 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)	98	94-102
EDTA plasma (n=4)	94	90-98

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
20	2.107	2.276	2.192	2.037
10	1.513	1.616	1.565	1.410
5	0.955	0.923	0.939	0.784
2.5	0.546	0.557	0.552	0.397
1.25	0.389	0.372	0.381	0.226
0.625	0.271	0.286	0.279	0.124
0.312	0.191	0.198	0.195	0.040
0	0.154	0.156	0.155	

**Msd**

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