



Rat N-acetyl- β -D-glucosaminidase,NAG ELISA Kit

Product Code	CSB-E07443r
Abbreviation	NAG
Target Name	N-acetyl- β -D-glucosaminidase,NAG
Uniprot No.	Q6AXR4
Alias	ENC-1AS, N-acetyl-beta-glucosaminidase hexosaminidase B, Beta-hexosaminidase subunit beta(HEXB)
Product Type	ELISA Kit
Immunogen Species	Rattus norvegicus (Rat)
Sample Types	serum, plasma, cell culture supernates, tissue homogenates, urine
Detection Range	1.56 mIU/mL-100 mIU/mL
Sensitivity	0.39 mIU/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	Others
Gene Names	Hexb
Tag Info	quantitative
Protein Description	Sandwich
Description	<p>This Rat NAG ELISA Kit was designed for the quantitative measurement of Rat NAG protein in serum, plasma, cell culture supernates, tissue homogenates, urine. It is a Sandwich ELISA kit, its detection range is 1.56 mIU/mL-100 mIU/mL and the sensitivity is 0.39 mIU/mL .</p>
Target Details	<p>Hexosaminidase B is the beta subunit of the lysosomal enzyme beta-hexosaminidase that, together with the cofactor GM2 activator protein, catalyzes the degradation of the ganglioside GM2, and other molecules containing terminal N-acetyl hexosamines. Beta-hexosaminidase is composed of two subunits, alpha and beta, which are encoded by separate genes. Both beta-hexosaminidase alpha and beta subunits are members of family 20 of glycosyl hydrolases. Mutations in the alpha or beta subunit genes lead to an accumulation of GM2 ganglioside in neurons and neurodegenerative disorders termed the GM2 gangliosidoses. Beta subunit gene mutations lead to Sandhoff disease (GM2-gangliosidosis type II).</p>



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 NAG 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 %	95
	Range %	90-100
1:2	Average %	96
	Range %	91-102
1:4	Average %	87
	Range %	84-95
1:8	Average %	95
	Range %	92-101

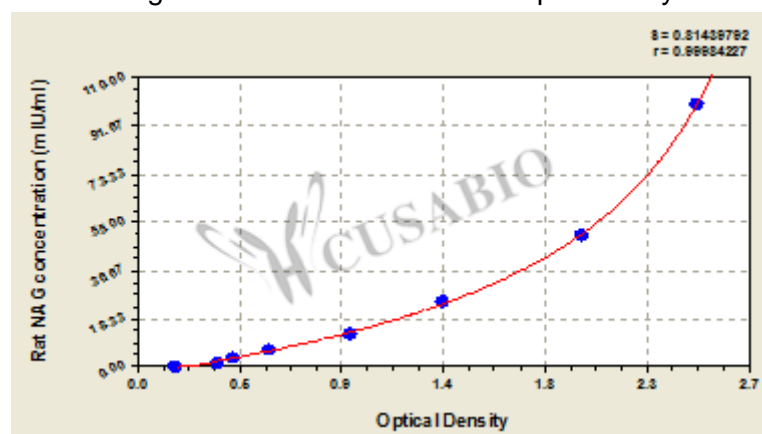
Recovery

The recovery of rat NAG 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)	100	95-105
EDTA plasma (n=4)	96	90-102

Typical

These standard curves are provided for demonstration only. A standard curve should be generated for each set of samples assayed.



mIU/ml	OD1	OD2	Average	Corrected
100	2.495	2.471	2.483	2.306
50	1.955	1.987	1.971	1.794
25	1.356	1.368	1.362	1.185
12.5	0.934	0.963	0.949	0.772
6.25	0.587	0.597	0.592	0.415
3.12	0.425	0.451	0.438	0.261
1.56	0.361	0.374	0.368	0.191
0	0.175	0.178	0.177	?

**Msd**

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