

Rat Neurocan (NCAN) ELISA Kit | NCAN elisa kit

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CATALOG #
AAA185575

REACTIVITY
Rat

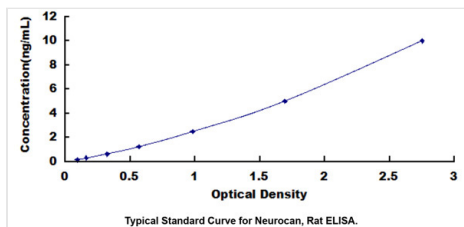
PRODUCT SYNONYMS

Neurocan (NCAN); Rat Neurocan (NCAN) ELISA Kit; CSPG3; NEUR; Neurocan Core Protein; Chondroitin Sulfate Proteoglycan 3; Neurocan Proteoglycan; NCAN elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Rat
Specificity	This assay has high sensitivity and excellent specificity for detection of neurocan. No significant cross-reactivity or interference between neurocan and analogues was observed.
Sequence Length	1,321
Assay Type	Quantitative Sandwich
Samples	Rat serum, plasma, tissue homogenates, cell lysates, cell culture supernates and other biological fluids
Detection Range	0.156-10ng/mL
Sensitivity	< 0.062ng/mL
Intra-assay Precision	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level neurocan were tested 20 times on one plate, respectively. Intra-Assay: CV<10%
Inter-assay Precision	Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level neurocan were tested on 3 different plates, 8 replicates in each plate. CV(%) = SD/meanX100. Inter-Assay: CV<12%
Preparation and Storage	The stability of kit is determined by the loss rate of activity. The loss rate of this kit is less than 5% within the expiration date under appropriate storage condition. To minimize extra influence on the performance, operation procedures and lab conditions, especially room temperature, air humidity, incubator temperature should be strictly controlled. It is also strongly suggested that the whole assay is performed by the same operator from the beginning to the end.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for NCAN elisa kit	Principle of the Assay: The microplate provided in this kit has been pre-coated with an antibody specific to neurocan. Standards or samples are then added to the appropriate microplate wells with a biotin-conjugated antibody specific to neurocan. Next, Avidin conjugated to Horseradish Peroxidase (HRP) is added to each microplate well and incubated. After TMB substrate solution is added, only those wells that contain neurocan, biotin-conjugated antibody and enzyme-conjugated Avidin will exhibit a change in color. The enzyme-substrate reaction is terminated by the addition of sulphuric acid solution and the color change is measured spectrophotometrically at a wavelength of 450nm ± 10nm. The concentration of neurocan in the samples is then determined by comparing the O.D. of the samples to the standard curve. Intended Uses: The kit is a sandwich enzyme immunoassay for in vitro quantitative measurement of neurocan in rat serum, plasma, tissue homogenates, cell lysates, cell culture supernates and other biological fluids.
References	Regulation of perineuronal net components in the synaptic bouton vicinity on lumbar 7-motoneurons in the rat after spinalization and locomotor training: New insights from spatio-temporal changes in gene, protein expression and WFA labeling; Exp Neurol; 2022 Aug;354:114098.; PMID: 35504345; Kamil Grycz; Group of Restorative Neurobiology, Nencki Institute of Experimental Biology, 02-093 Warsaw, Poland; Department of Neurobiology, Poznan University of Physical Education, 61-87Poznan, Poland. Electronic address: k.grycz@nencki.edu.pl.

NCBI AND UNIPROT INFORMATION

NCBI GI #	118600983
NCBI GeneID	1463
NCBI Accession #	NP_004377.2
NCBI GenBank Nucleotide #	NM_004386.2
UniProt Accession #	O14594; Q9UPK6
Molecular Weight	143,093 Da
NCBI Official Full Name	neurocan core protein
NCBI Official Synonym Full Names	neurocan
NCBI Official Symbol	NCAN
NCBI Official Synonym Symbols	CSPG3
NCBI Protein Information	neurocan core protein
UniProt Protein Name	Neurocan core protein
UniProt Gene Name	NCAN
UniProt Synonym Gene Names	CSPG3; NEUR

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/rat-elisa-kits/neurocan-ncan/185575>