



MONOCLONAL ANTIBODY

For research use only, Not for diagnostic use.

Catalog NU-07-001

Anti Chondroitin Sulfate A (2H6)**BACKGROUND**

Chondroitin sulfate, a polysaccharide moiety of proteoglycans, is one of the major components of the extracellular matrix of the animal body, and is composed of the repeating unit, [\rightarrow 4GlcA 1 \rightarrow 3GalNAc 1 \rightarrow], commonly sulfated at the C-4 and/or C-6 of GalNAc. In the central nervous system, the most abundant glycosaminoglycan is chondroitin sulfate rich in [GlcA-GalNAc(4S)], namely chondroitin sulfate A. Chondroitin sulfate polysaccharides are involved in various cellular events in the formation, regeneration, and maintenance of the neural network.

This monoclonal antibody recognizes effectively chondroitin sulfate A, especially the glycosaminoglycan existing in the developing central nervous system.

Product type	Primary antibody
Immunogen	Chondroitin sulfate proteoglycans purified from 10-day-old rat brain
Raised in	Mouse (BALB/c)
Myeloma	P3-U1
Clone number	2H6
Isotype	IgM, k-chain
Host	-
Source	Serum free culture supernatant
Purification	Purified by Ion-Exchange Chromatography
Buffer	PBS containing 0.02% NaN ₃ as a preservative
Concentration	1.0 mg / mL
Volume	200 ul
Label	Unlabeled
Specificity	Chondroitin sulfate A
Cross reactivity	Variety of established and fresh normal cells derived from various animal species. No cross-react with hyaluronic acid, heparin, heparan sulfate, chondroitin, dermatan sulfate and keratin sulfate.
Storage	Shipped at 4°C. Upon arrival aliquot and store at -20°C or below. Aliquot to avoid cycles of freeze/thaw.

Application notes	
Recommended dilutions	<ul style="list-style-type: none">• Western blotting: 1/10,000• Immunohistochemistry: 1/100 (Paraffin section), Available (Frozen section)• Immunoprecipitation: Available• ELISA: 1/1,000 – 1/2,000

Other applications have not been tested.
Optimal dilutions/concentrations should be determined by the end user.

References	<ol style="list-style-type: none">1) Oohira, A., et al.: Neuroscience, 60, 145-157 (1994) PMID: 80524082) Yamamoto, Y., et al.: Eur. J. Histochem., 39, 265-272 (1995) PMID: 8835180
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ANTIBODY CHARACTERIZATION

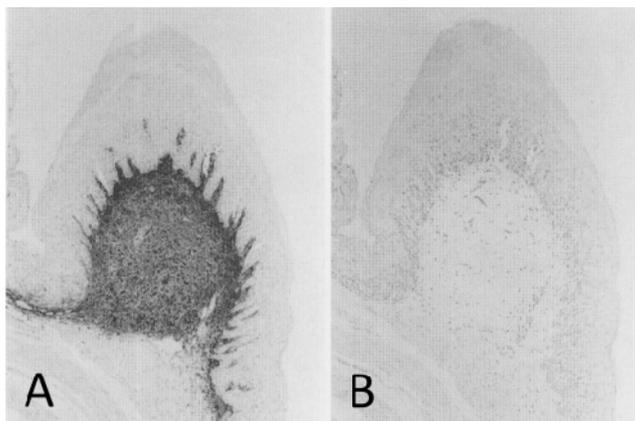


Fig.1 Immunohistochemical staining using the monoclonal anti-chondroitin sulfate A antibody (clone 2H6)
Paraffin sections of omasal papilla from the adult sheep were stained with the monoclonal anti-chondroitin sulfate A antibody before (A) and after (B) digestion with chondroitinase ABC. After pretreatment with the enzyme, the immunoreactivity completely disappeared.
Reference: Eur. J. Histochem., 39 (1995) 265-272.

RELATED PRODUCTS:

Product Name	Maker	Cat#
Anti Chondroitin Sulfate A (2H6) Monoclonal Antibody	CAC	NU-07-001
Anti Neurocan (1G2) Monoclonal Antibody	CAC	NU-07-002
Anti Neuroglycan C (C1) Monoclonal Antibody	CAC	NU-07-003
Anti N-syndecan Polyclonal Antibody	CAC	NU-07-004
Anti Neurocan peptides Polyclonal Antibody	CAC	NU-07-005

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