

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

- **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

- 1) Oohira, A., et al.: Neuroscience, 60, 145-157 (1994) **PMID:** 8052408
- 2) Yamamoto, Y., et al.: Eur. J. Histochem., 39, 265-272 (1995) **PMID:** 8835180



<p style="text-align: center; margin: 0;">UK & Rest of World</p> <p style="font-size: 8px; margin: 0;">184 Milton Park, Abingdon OX14 4SE, Oxon, UK Tel: +44 (0) 1235 828 200 Fax: +44 (0) 1235 820 482</p>	<p style="text-align: center; margin: 0;">Switzerland</p> <p style="font-size: 8px; margin: 0;">Centro Nord-Sud 2E CH-6934 Bioggio-Lugano Tel: +41 (0) 91 604 55 22 Fax: +41 (0) 91 605 17 85</p>	<p style="text-align: center; margin: 0;">Deutschland</p> <p style="font-size: 8px; margin: 0;">Bockenheimer Landstr. 17/19 60325 Frankfurt/Main Tel: +49 (0) 69 779099 Fax: +49 (0) 69 13376880</p>	<p style="text-align: center; margin: 0;">North America</p> <p style="font-size: 8px; margin: 0;">23591 El Toro Rd, Suite #180 Lake Forest, CA 92630 Tel: + 1 800 987 0985 Fax: + 1 949 265 7703</p>	<p style="font-size: 16px; margin: 0;">amsbio</p> <p style="font-size: 12px; margin: 0;">info@amsbio.com</p> <p style="font-size: 8px; margin: 0;">www.amsbio.com AMS Biotechnology</p>
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ANTIBODY CHARACTERIZATION

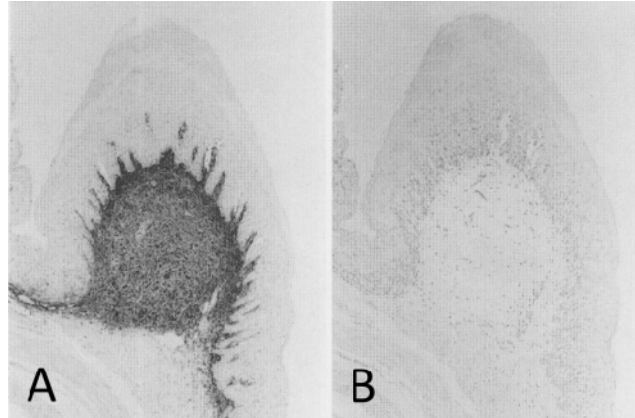


Fig.1 Immunohistochemical staining using the monoclonal anti-chondroitin sulfate A antibody (clone 2H6)

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.

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UK & Rest of World 184 Milton Park, Abingdon OX14 4SE, Oxon, UK Tel: +44 (0) 1235 828 200 Fax: +44 (0) 1235 820 482	Switzerland Centro Nord-Sud 2E CH-6934 Bioggio-Lugano Tel: +41 (0) 91 604 55 22 Fax: +41 (0) 91 605 17 85	Deutschland Bockenheimer Landstr. 17/19 60325 Frankfurt/Main Tel: +49 (0) 69 779099 Fax: +49 (0) 69 13376880	North America 23591 El Toro Rd, Suite #180 Lake Forest, CA 92630 Tel: + 1 800 987 0985 Fax: + 1 949 265 7703	amsbio info@amsbio.com www.amsbio.com AMS Biotechnology
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