

MONOCLONAL ANTIBODY

Cat. code 270432-CS

Anti CS[Chondroitin Sulfate] (2B6)

BACKGROUND

Monoclonal antibody 2B6 recognises 4-sulfated unsaturated disaccharide neopeptides (i.e. C-4-S "stubs") generated at the non-reducing terminal of Chondroitin Sulfate or Dermatan Sulfate glycosaminoglycan chains that have been pre-digested with Chondroitinase ABC [see Figure 2; Caterson B (2012) Int. J. Exp. Pathol. 93: 1 - 10] but only Chondroitin Sulfate glycosaminoglycan chains pre-digested with Chondroitinase ACII or only Dermatan Sulfate glycosaminoglycan chains pre-digested with Chondroitinase B.

Product type	Primary antibody
Immunogen	4-sulfated chondroitin sulfate disaccharide Chondroitinase ABC digested Bovine Aggrecan
Raised in	Mouse (BALB/c)
Myeloma	X63-Ag8.653
Clone number	2B6
Isotype	IgG1
Source	Serum containing culture supernatant
Purification	-
Buffer	0.01M Tris-saline containing 0.02% NaN ₃ as a preservative
Concentration	Not known
Volume	1 mL
Label	Unlabeled
Specificity	4-sulfated unsaturated disaccharide neopeptides (i.e. C-4-S "stubs") generated at the non-reducing terminal of Chondroitin Sulfate or Dermatan Sulfate glycosaminoglycan chains that have been pre-digested with Chondroitinase ABC [see Figure 2; Caterson (2012) Int. J. Exp. Pathol. 93: 1 - 10] but only Chondroitin Sulfate glycosaminoglycan chains pre-digested with Chondroitinase ACII or only Dermatan Sulfate glycosaminoglycan chains pre-digested with Chondroitinase B.
Cross reactivity	All animal species
Storage	Stable for 3-4 days @ 4°C. Store below -20°C (below -70°C for prolonged storage). Aliquot to avoid repeated cycles of freeze/thawing.
Other	See Hayes AJ et al (2008) Methods 45: 10 - 21

Application notes	<ul style="list-style-type: none"> • Western blotting: 1/100 (e.g. 50µl to 5 ml with blocking buffer) • Immunohistochemistry: 1/20 (e.g. 20µl to 400µl with blocking buffer).
Recommended dilutions	Other applications have not been tested. Optimal dilutions/concentrations should be determined by the end user.

References	<ol style="list-style-type: none"> 1) Caterson B. (2012). Chondroitin sulphate glycosaminoglycans: fun for some and confusion for others. Int. J. of Exp. Path. 93: 1 – 10 PubMed: 22264297 2) Hayes AJ, Hughes CE & Caterson B (2008). Antibodies and immunohistochemistry in extracellular matrix research. Methods 45: 10 - 21 PubMed: 18442701 3) Davies L, Blain E, Caterson B and Duance VC (2008). Chondroitin sulphate impedes the migration of a sub-population of articular cartilage chondrocytes. Osteoarthritis & Cartilage 16: 855 - 864 PubMed: 18222711 4) Hayes AJ, Hall A, Brown L, Tubo R & Caterson B (2007). Macromolecular organization and in vitro growth characteristics of scaffold-free neocartilage grafts. J. Histochem. Cytochem. 55: 853 – 866. PubMed: 17478447 5) Katz H, Austen KF, Caterson B, & Stevens RL (1986). Secretory granules of Heparin-containing Rat serosal mast cells also possess highly sulfated chondroitin sulfate proteoglycans. J. Biol. Chem. 261: 13393 - 13396 PubMed: 3531203
-------------------	---

AMS BIO | www.amsbio.com | info@amsbio.com

 **UK & Rest of the World**
184 Park Drive, Milton Park
Abingdon OX14 4SE, UK
T: +44 (0)1235 828 200
F: +44 (0) 1235 820 482

 **North America**
1035 Cambridge Street,
Cambridge, MA 02141
T: +1 (617) 945-5033 or
T: +1 (800) 987-0985
F: +1 (617) 945-8218

 **Germany**
Bockenheimer Landstr. 17/19
60325 Frankfurt/Main
T: +49 (0) 69 779099
F: +49 (0) 69 13376880

 **Switzerland**
Centro Nord-Sud 2E
CH-6934 Bioggio-Lugano
T: +41(0) 91 604 55 22
F: +41(0) 91 605 17 85