

## Monoclonal Antibody to Chondroitinase-generated C-4-S and DS neopeptide

**Catalog Number 1042009**

*For research use only*

<b>INTRODUCTION</b>	Monoclonal antibody to delta-unsaturated glucuronic acid adjacent to N-acetylgalactosamine-4-sulphate in the non-reducing terminal disaccharide “stub” of 4-sulphated chondroitin sulphate that is produced after chondroitinase digestion of chondroitin-4-sulphate glycosaminoglycan chains (chondroitinase ABC or ACII) or dermatan sulphate glycosaminoglycan chains (chondroitinase ABC or chondroitinase B).
<b>IMMUNOGEN</b>	Bovine nasal cartilage aggrecan that had been deglycosylated with chondroitinase ABC digestion; i.e. BNC (ABC) Core (see Couchman et al 1984 and Caterson et al 1985).
<b>CLONE</b>	2B6
<b>ISOTYPE</b>	IgG
<b>HOST</b>	Mouse
<b>PURITY</b>	Affinity purified
<b>SPECIFICITY</b>	Chondroitin-4-sulphate (C-4-S) after treatment with Chondroitinase ABC or ACII. Dermatan sulphate (DS) neopeptide after treatment with Chondroitinase ABC or B.
<b>APPLICATIONS</b>	<ul style="list-style-type: none"><li>• ELISA (see Couchman et al 1984)</li><li>• Western Blot (see Rees et al 2000)</li><li>• Immunohistochemistry (see Couchman et al 1984 and Hayes et al 2007 &amp; 2008)</li></ul>
<b>TECHNICAL NOTES</b>	Pretreatment with Chondroitinase required. $1 \times 10^{-3}$ U per 10 $\mu$ g GAG at 37 °C for 1 hour.
<b>STORAGE BUFFER</b>	PBS, no preservatives

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**FORM**

Clear Liquid

**CONCENTRATION**

See vial label for concentration

**STORAGE**

Store at -20°C. Avoid freeze/thaw cycles. Check label for expiry date.

**REFERENCES**

1. Caterson, B, Christner, JE, Baker, JR, Couchman, JR. (1985) Production and characterization of monoclonal antibodies directed against connective tissue proteoglycans Fed Proc 44,386-393
2. Couchman, J.R., Caterson, B., Christner, J.E. and Baker, J.R. (1984). Mapping by Monoclonal Antibody Detection of Glycosaminoglycans in Connective Tissues. Nature 307: 650-652
3. Rees SG, Flannery CR, Little CB, Hughes CE, Caterson B & Dent CM (2000). Catabolism of aggrecan, decorin and biglycan in tendon. Biochem J. 350: 181-188.
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(8):853-66.
5. Hayes AJ, Hughes CE & Caterson B (2008). Antibodies and immunohistochemistry in extracellular matrix research. Methods 45: 10-21
6. Stefan Milz, Frank Regner, Reinhard Putz, and Michael Benjamin. Expression of a Wide Range of Extracellular Matrix Molecules in the Tendon and Trochlea of the Human Superior Oblique Muscle Investigative Ophthalmology and Visual Science. 2002;43:1330-1334
7. Hedlund, H, Hedbom, E, Heinegard, D, Mengarelli-Widholm, S, Reinholt, FP, Svensson, O. (1999) Association of the aggrecan keratan sulfate-rich region with collagen in bovine articular cartilage J Biol Chem 274,5777-5781

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