

## Anti CS[Chondroitin Sulfate] (1B5)

### BACKGROUND

Monoclonal antibody 1B5 recognises unsulfated unsaturated disaccharide neoepitopes (i.e. C-0-S "stubs") generated at the non-reducing terminal of Chondroitin Sulfate glycosaminoglycan chains that have been pre-digested with either Chondroitinase ABC or Chondroitinase ACII [see Figure 2; Caterson B (2012) Int. J. Exp. Pathol. 93: 1 - 10].

<b>Product type</b>	Primary antibody
<b>Immunogen</b>	Unsulfated chondroitin sulfate disaccharide Chondroitinase ABC digested Rat Chondrosarcoma Aggrecan
<b>Rased in</b>	Mouse (BALB/c)
<b>Myeloma</b>	X63-Ag8.653
<b>Clone number</b>	1B5
<b>Isotype</b>	IgG1
<b>Source</b>	Serum containing culture supernatent
<b>Purification</b>	-
<b>Buffer</b>	0.01M Tris-saline containing 0.02% NaN <sub>3</sub> as a preservative
<b>Concentration</b>	Not known
<b>Volume</b>	1 mL
<b>Label</b>	Unlabeled
<b>Specificity</b>	Unsulfated unsaturated disaccharide neoepitopes (i.e. C-0-S "stubs") generated at the non-reducing terminal of Chondroitin Sulfate glycosaminoglycan chains that have been pre-digested with either Chondroitinase ABC or Chondroitinase ACII [see Figure 2; Caterson (2012) Int. J. Exp. Pathol. 93: 1 - 10].
<b>Cross reactivity</b>	All animal species
<b>Storage</b>	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.
<b>Other</b>	See Hayes AJ et al (2008) Methods 45: 10 - 21

<b>Application notes</b>	• <b>Western blotting:</b> 1/100 (e.g. 50µl to 5 ml with blocking buffer)
<b>Recommended dilutions</b>	• <b>Immunohistochemistry:</b> 1/20 (e.g. 20µl to 400µl with blocking buffer).

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

<b>References</b>	<ol style="list-style-type: none"><li>1) Caterson B. (2012). Chondroitin sulphate glycosaminoglycans: fun for some and confusion for others. Int. J. of Exp. Path. 93: 1 – 10 PubMed: <a href="#">22264297</a></li><li>2) Hayes AJ, Hughes CE &amp; Caterson B (2008). Antibodies and immunohistochemistry in extracellular matrix research. Methods 45: 10 - 21 PubMed: <a href="#">18442701</a></li><li>3) Caterson B, Christner JE, Baker JR &amp; Couchman JR (1985). The production and characterization of monoclonal antibodies directed against connective tissue proteoglycans. Federation Proceedings 44: 386 - 393. PubMed: <a href="#">2578417</a></li><li>4) Couchman JR, Caterson B, Christner JE &amp; Baker JR (1984). Mapping by monoclonal antibody detection of glycosaminoglycans in connective tissues. Nature 307: 650 – 652. PubMed: <a href="#">6420711</a></li></ol>
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**RELATED PRODUCTS:**

Product Name	Clone	Maker	Cat#
Anti CS [Chondroitin Sulfate] Monoclonal Antibody	2B6	CAC	PRPG-BC-M02
Anti CS [Chondroitin Sulfate] Monoclonal Antibody	1B5	CAC	PRPG-BC-M03
Anti CS [Chondroitin Sulfate] Monoclonal Antibody	3B3	CAC	PRPG-BC-M04
Anti Chondroitin Sulfate A Monoclonal Antibody	2H6	CAC	NU-07-001
Anti Aggrecan Monoclonal Antibody	6F4	CAC	PRPG-AG-M01
Anti Aggrecan Monoclonal Antibody	5D3	CAC	PRPG-AG-M02
Anti Aggrecan Monoclonal Antibody	5G2	CAC	PRPG-AG-M03
Anti Aggrecan Monoclonal Antibody	7B7	CAC	PRPG-AG-M04
Anti Versican/CSPG2 Monoclonal Antibody	5C12	CAC	PRPG-VS-M01
Anti Versican/CSPG2 Monoclonal Antibody	4C5	CAC	PRPG-VS-M02
Anti Neurocan Monoclonal Antibody	1G2	CAC	NU-07-002
Anti Neuroglycan C Monoclonal Antibody	C1	CAC	NU-07-003
Anti Neurocan peptides Polyclonal Antibody	-	CAC	NU-07-005
Anti N-syndecan Polyclonal Antibody	-	CAC	NU-07-004
Anti BPAG1(BP230) Monoclonal Antibody	279	CAC	NU-01-BP1
Anti NG2 / CSPG4 Monoclonal Antibody	2164H5	CAC	PRPG-NG-M01
Anti COMP Monoclonal Antibody	484D1	CAC	PRPG-CP-M01
Anti COMP Monoclonal Antibody	490D11	CAC	PRPG-CP-M02
Anti Keratan sulfate Monoclonal Antibody	373E1	CAC	PRPG-KS-M01
Anti KS [Keratan Sulfate] Monoclonal Antibody	5DA	CAC	PRPG-BC-M01
Anti Decorin Monoclonal Antibody	889C7	CAC	PRPG-DC-M01
Anti Fibromodulin Monoclonal Antibody	636B12	CAC	PRPG-FBM-M01
Anti Biglycan Monoclonal Antibody	905A7	CAC	PRPG-BG-M01
Anti XTP1 Monoclonal Antibody	2191H1	CAC	PRPG-XTP-M01
Anti SDP35 Monoclonal Antibody	2200D12	CAC	PRPG-SDP-M01
Anti Laminin $\alpha$ 4 Monoclonal Antibody	652C4	CAC	PRPG-LA4-M01
Anti Laminin ALPHA3 Monoclonal Antibody	BM515	CAC	NU-01-LA3
Anti Collagen 7 Monoclonal Antibody	BML39	CAC	NU-01-CO7
Anti Collagen 12 Monoclonal Antibody	378D5	CAC	PRPG-CO12-M01

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