

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].

Product type	Primary antibody
Immunogen	Unsulfated chondroitin sulfate disaccharide Chondroitinase ABC digested Rat Chondrosarcoma Aggrecan
Rased in	Mouse (BALB/c)
Myeloma	X63-Ag8.653
Clone number	1B5
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	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].
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	• Western blotting: 1/100 (e.g. 50µl to 5 ml with blocking buffer)
Recommended dilutions	• Immunohistochemistry: 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.

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) Caterson B, Christner JE, Baker JR & Couchman JR (1985). The production and characterization of monoclonal antibodies directed against connective tissue proteoglycans. Federation Proceedings 44: 386 - 393. PubMed: 2578417 4) Couchman JR, Caterson B, Christner JE & Baker JR (1984). Mapping by monoclonal antibody detection of glycosaminoglycans in connective tissues. Nature 307: 650 – 652. PubMed: 6420711
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