



## DEVELOPMENTAL STUDIES HYBRIDOMA BANK

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### DS1

(Only cell products will be distributed.)

#### INVESTIGATOR

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#### IMMUNOGEN

##### Substance

**Name** decorin (dermatan sulfate proteoglycan DS-PS II)  
**Origin** bovine articular cartilage  
**Chemical Composition** the decorin core protein consists of 330 amino acids and has a molecular weight of 36 383. The epitope is unaffected by chondroitinase ABC digestion.

##### Developmental Stage

#### IMMUNIZATION PROTOCOL

##### Donor Animal

**Species** mouse  
**Strain** balb/c  
**Sex** female  
**Organ and tissue** spleen

##### Immunization

**Dates immunized** day 0, day 16, day 37  
**Amount of antigen** 100 µl mixture of bovine cartilage decorin and biglycan (reference 1)  
**Route of immunization** subcutaneously (multiple sites) on day 0 and day 16; subcutaneously and intraperitoneally on day 37.  
**Adjuvant** Freund's complete adjuvant on day 0; Freund's incomplete adjuvant on days 16 and 37.

#### FUSION

**Date** April 16, 1983

##### Myeloma cell line

**Species** mouse  
**Designation** SP 2/0-Ag 14

#### MONOCLONAL ANTIBODY

**Isotype** IgG1

##### Specificity

**Cell binding**  
**Immunohistology** staining of bovine articular cartilage, epiphyseal matrix, outlined collagen fibrils in skin, anterior cruciate ligament, tendon, small arterial vessels in the dermis, extracellular matrix of the cornea, sclera and uveal tract

##### Antibody competition

**Species Specificity** bovine

#### ANTIGEN

**Chemical properties** core protein epitope

##### Molecular weight

##### Characterization

**Immunoprecipitation**  
**Immunoblotting** see reference 1  
**Purification** see reference 1  
**Amino acid sequence analysis**

##### Functional effects

**Immunohistochemistry** see reference 2



**PUBLICATIONS :**

**DS1** (Continued)

- Rosenberg, L., Choi, H., Tang, L., Johnson, T., Pal, S., Webber, C., Reiner, A. and Poole, A.R. (1985). Isolation of dermatan sulfate proteoglycans from mature bovine articular cartilages. *J. Biol. Chem.* 260, 6304-6313.
- Poole, A.R., Webber, C., Pidoux, I., Choi, H., and Rosenberg, L. (1986). Localization of a dermatan sulfate proteoglycan (DS-PG II) in cartilage and the presence of an immunologically related species in other tissues. *J. Histochem. Cytochem.* 34, 619-625.

**ACKNOWLEDGMENTS STATEMENT**

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