INVESTIGATOR
Name  John A. McDonald, Ph.D., M.D.
Address  Mayo Clinic Scottsdale, 13400 East Shea Blvd., Scottsdale, AZ 85259

IMMUNOGEN
Substance
Name  procollagen type I
Origin  human fibroblast (IMR-90) conditioned media
Chemical Composition  protein
Developmental Stage

IMMUNIZATION PROTOCOL
Donor Animal
Species  mouse
Strain  BALB/c
Sex  female
Organ and tissue  spleen lymphocytes
Immunization
Dates immunized  11/8/83, 12/5/83, 12/19/83, 2/15/84, 2/23/84
Amount of antigen  10 µg each injection
Route of immunization  all intraperitoneal except 2/23/84, which was tail vein
Adjuvant  complete Freund’s on 11/8/83, incomplete Freund’s for the next three

FUSION
Date  2/27/84
Myeloma cell line  Species  mouse
Designation  SP-2/0-Ag 14

MONOCLONAL ANTIBODY
Isotype  IgG1
Specificity
Cell binding
Immunohistology
Antibody competition
Species Specificity  reacts with human, chicken, guinea pig, calf procollagen type I. No reaction with mouse, rat, hamster.

ANTIGEN
Chemical properties  carboxyterminal propeptide of type I collagen
Molecular weight  140-150 kDa
Characterization
Immunoprecipitation  yes
Immunoblotting  no
Purification
Amino acid sequence analysis
Functional effects  unknown
Immunohistochemistry  See reference 1. Useful for intracellular detection of type I procollagen in frozen or acid alcohol fixed tissue. Antigenicity is destroyed by formalin.

PUBLICATIONS:

(Continued)
We have been asked by NICHD to ensure that all investigators include an acknowledgment in publications that benefit from the use of the DSHB's products. We suggest that the following statement be used:

“The (select: hybridoma, monoclonal antibody, or protein capture reagent,) developed by [Investigator(s) or Institution] was obtained from the Developmental Studies Hybridoma Bank, created by the NICHD of the NIH and maintained at The University of Iowa, Department of Biology, Iowa City, IA 52242.”

Please send copies of all publications resulting from the use of Bank products to:

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The University of Iowa
028 Biology Building East
Iowa City, IA 52242

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ACKNOWLEDGMENTS STATEMENT

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