



INVESTIGATOR

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IMMUNOGEN

Substance
Name crude extracellular matrix prep
Origin chick skeletal muscles
Chemical Composition
Developmental Stage 14-day white Leghorn chick embryo

IMMUNIZATION PROTOCOL

Donor Animal
Species mouse
Strain BALB/cJ
Sex
Organ and tissue spleen
Immunization
Dates immunized initial injection followed 1 mo later by boost, 3 days later took spleen for hybridoma production
Amount of antigen 0.1 ml packed material
Route of immunization i.p.
Adjuvant Freund's complete, incomplete; then tail vein injection of immunogen suspended in saline

FUSION

Date
Myeloma cell line
Species mouse, BALB c
Designation SP2/0 Ag8

MONOCLONAL ANTIBODY

Isotype IgG1, kappa light chain
Specificity believed to be specific for collagen type VI
Cell binding
Immunohistology strong extracellular immunolabeling in many tissues
Antibody competition
Species Specificity

ANTIGEN

Chemical properties believed to be collagen type VI
Molecular weight SDS PAGE: 255, 140 and 130 kDa bands
Characterization
Immunoprecipitation works well when antibody bound to Sepharose beads
Immunoblotting
Purification
Amino acid sequence analysis
Functional effects none known
Immunohistochemistry present in all regions of muscle connective tissue; present bound to culture dishes after growth of primary chick muscle in tissue culture

PUBLICATIONS :

Bayne, E.K., Anderson, M.J., and Fambrough, D.M. (1984). Extracellular matrix organization in developing muscle: correlation with acetylcholine receptor aggregates. J. Cell Biol. 99, 1486-1501. (This report does not identify the antigen as collagen type VI. Identification is based upon characterization in the report, interpreted by others.)
Maier, A., and Mayne, R. (1995). Basal lamina development in chicken muscle spindles. Dev. Dyn. 202, 284-293.



DEVELOPMENTAL STUDIES HYBRIDOMA BANK

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ACKNOWLEDGMENTS STATEMENT

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