



DEVELOPMENTAL STUDIES HYBRIDOMA BANK

dshb.biology.uiowa.edu | 319-335-3826 | dshb@uiowa.edu

MANDM15(5C9)

INVESTIGATOR

Name Glenn E. Morris

Address Wolfson Centre for Inherited Neuromuscular Disease, TORCH Bldg, RJA Orthopaedic Hospital, Oswestry, UK

IMMUNOGEN

Substance

Name Myotonic Dystrophy Protein Kinase (DMPK) fragment

Origin bacterial recombinant

Chemical Composition fragment containing catalytic and coiled – coil domain

Developmental Stage adult

IMMUNIZATION PROTOCOL

Donor Animal

Species mouse

Strain Balb/c

Sex female

Organ and tissue spleen

Immunization

Dates immunized 1997

Amount of antigen

Route of immunization

Adjuvant Freund's

FUSION

Date 1997

Myeloma cell line

Species mouse

Designation Sp2/0

MONOCLONAL ANTIBODY

Isotype IgG1

Specificity

Cell binding cross-reacts with some other protein kinase
epitope: coil

Immunohistology

Antibody competition

Species Specificity human

ANTIGEN

Chemical properties

Molecular weight 80 kDa on SDS-PAGE (plus higher Mr bands in muscle)

Characterization

Immunoprecipitation

Immunoblotting yes

Purification

Amino acid sequence analysis

Functional effects

Immunohistochemistry

PUBLICATIONS :

Pham, Y.C.N., Man, N.T., Lam, L.T., and Morris, G.E. (1998). Localization of myotonic dystrophy protein kinase in human and rabbit tissues using a new panel of monoclonal antibodies. Hum. Mol. Genet. 7, 1957-1965.

Lam, L.T., Pham, Y.C.N., Man, N.T., and Morris, G.E. (2000). Characterization of a monoclonal antibody panel shows that the myotonic dystrophy protein kinase, DMPK, is expressed almost exclusively in muscle and heart. Hum. Mol. Genet. 9, 2167-2173.



DEVELOPMENTAL STUDIES HYBRIDOMA BANK

dshb.biology.uiowa.edu | 319-335-3826 | dshb@uiowa.edu

ACKNOWLEDGMENTS STATEMENT

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:

Developmental Studies Hybridoma Bank
Department of Biology
The University of Iowa
028 Biology Building East
Iowa City, IA 52242