



51.4H9

INVESTIGATOR

Name Thomas M. Jessell and Susan Brenner-Morton
Address Columbia University, Howard Hughes Medical Institute, 701 W. 168th St., Rm. 1013, New York, NY 10032

IMMUNOGEN

Substance Islet 2
Name
Origin GST fusion from E. coli linker region of protein
Chemical Composition
Developmental Stage

IMMUNIZATION PROTOCOL

Donor Animal

Species mouse
Strain Balb/c
Sex female
Organ and tissue spleen

Immunization

Dates immunized
Amount of antigen 100µg/injection
Route of immunization IP
Adjuvant CFA, IFA

FUSION

Date 9/14/94
Myeloma cell line
Species Balb/c mouse
Designation NS-1

MONOCLONAL ANTIBODY

Isotype IgG1, kappa light chain
Specificity
Cell binding
Immunohistology motor neurons and DRG (nuclear)
Antibody competition
Species Specificity chick

ANTIGEN

Chemical properties transcription factor
Molecular weight
Characterization
Immunoprecipitation
Immunoblotting
Purification
Amino acid sequence analysis
Functional effects
Immunohistochemistry

PUBLICATIONS :

Pfaff, S.L., Mendelsohn, M., Stewart, C.L., Edlund, T., and Jessell, T.M. (1996.) Requirement for LIM homeobox gene Is1 in motor neuron generation reveals a motor neuron-dependent step in interneuron differentiation. *Cell* 84, 309-320.
Thaler, J.P., Lee, S.-K., Jurata, L.W., Gill, G.N., and Pfaff, S.L. (2002). LIM factor Lhx3 contributes to the specification of motor neuron and interneuron identity through cell-type-specific protein-protein interactions. *Cell* 110, 237-249.



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