INVESTIGATOR
Name: Corey Goodman
Address: University of California, Berkeley, Department of Molecular and Cell Biology, 519 Life Sciences Addition, Berkeley, CA 94720

IMMUNOGEN
Substance: C-terminal two-thirds of the invected protein were generated in E. coli with the T7 polymerase expression system (Studier and Moffatt, 1986).

IMMUNIZATION PROTOCOL
Donor Animal
Species: mouse
Strain: Balb/c
Sex: 
Organ and tissue: spleen
Immunization
Dates immunized: day 0, day 14, day 28, day 42
Amount of antigen: 100 μg (50 μg three days prior to fusion)
Route of immunization: intraperitoneal
Adjuvant: Freund's complete (day 0) and Freund's incomplete for other injections

FUSION
Date: 
Myeloma cell line
Species: mouse
Designation: NS-1

MONOCLONAL ANTIBODY
Isotype: IgG1, kappa light chain
Specificity: This antibody recognizes both the engrailed and invected gene products of Drosophila and the epitope has been localized to residues 38-58 of the homeodomain. The antibody is useful for examining the patterning of segmentation from the cellular blastoderm stage onward. Staining is also seen in a large number of CNS neurons including most of the median neuroblast progeny as well as a small number of PNS neurons. Engrailed gene products are also recognized in grasshopper, crayfish, lobster, zebrafish, chicken and Xenopus. The antibody fails in mouse and Manduca sexta (moth). The antibody will recognize denatured proteins and is also valuable for expression cloning.

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

PUBLICATIONS:

(Continued)


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.”

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