



DEVELOPMENTAL STUDIES HYBRIDOMA BANK

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MH46

INVESTIGATOR

Name Robert H. Waterston

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IMMUNOGEN

Substance

Name Caenorhabditis elegans

Origin N2 protein fraction enriched in muscle proteins (Francis and Waterston, 1985.

Chemical Composition J. Cell Biol. 101, 1532-1549)

Developmental Stage post hatching

IMMUNIZATION PROTOCOL

Donor Animal

Species mouse

Strain balb C

Sex female

Organ and tissue spleen

Immunization

Dates immunized ?

Amount of antigen 150 µl

Route of immunization I.P. injection

Adjuvant 50% Freund's

FUSION

Date ?

Myeloma cell line

Species mouse

Designation Sp2/O-ag

MONOCLONAL ANTIBODY

Isotype IgG1, kappa light chain

Specificity

Cell binding hypodermis, pharynx, vulva, uterus, a few cells in the tail.

Immunohistology works well

Antibody competition not tested

Species Specificity Caenorhabditis elegans

ANTIGEN

Chemical properties myotactin (Hresko et al., 1999. J. Cell Biol. 146, 659-672).

Molecular weight at least 2 splice variants/ about 500 kDa

Characterization

Immunoprecipitation not tested

Immunoblotting works

Purification not tested

Amino acid sequence analysis Hresko et al., 1999. Myotactin, a novel hypodermal protein involved in muscle-cell adhesion in Caenorhabditis elegans.

Functional effects

Immunohistochemistry

PUBLICATIONS :

Francis, R., and Waterston, R.H. (1991). Muscle cell attachment in Caenorhabditis elegans. J. Cell Biol. 114, 465-479.



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