



2F4

INVESTIGATOR

Name Christine Lucas

Address Department of Physiology, Anderson Stuart Building F13, University of Sydney, Sydney, NSW 2006, Australia

IMMUNOGEN

Substance

Name myosin

Origin cat masseter muscle

Chemical Composition

Developmental Stage adult

IMMUNIZATION PROTOCOL

Donor Animal

Species mouse

Strain balb/c

Sex female

Organ and tissue spleen

Immunization

Dates immunized 1992

Amount of antigen 1 mg

Route of immunization intraperitoneal

Adjuvant Freund's complete adjuvant

FUSION

Date 1992

Myeloma cell line

Species mouse

Designation NS1

MONOCLONAL ANTIBODY

Isotype IgG1, kappa light chain

Specificity

Cell binding

Immunohistology

Antibody competition

Species Specificity cat, dog, flying fox, bat, monkey, crocodile, shark and Australian marsupials except kangaroos

ANTIGEN

Chemical properties

Molecular weight 200 kDa

Characterization

Immunoprecipitation

Immunoblotting masticatory (superfast) specific myosin heavy chain from cat jaw muscles

Purification

Amino acid sequence analysis

Functional effects

Immunohistochemistry masticatory fast muscle fibers on jaw muscles of cat, dog, flying fox, bat, monkey, crocodile, shark and Australian marsupials except kangaroos

PUBLICATIONS :

Kang, L.H.D., Hughes, S., Pettigrew, J.D., and Hoh, J.F.Y. (1994). Jaw-specific myosin heavy chain gene expression in sheep, dog, monkey, flying fox and microbat jaw-closing muscles. *Basic Appl. Myol.* 4, 381-392.

Hoh, J.F.Y., Kang, L.H.D., Sieber, L.G., Lin, J.H., and Zong, W.W. (2006). Myosin isoforms and fibre types in jaw-closing muscles of Australian marsupials. *J. Comp. Physiol. B* 176(7), 685-695.



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